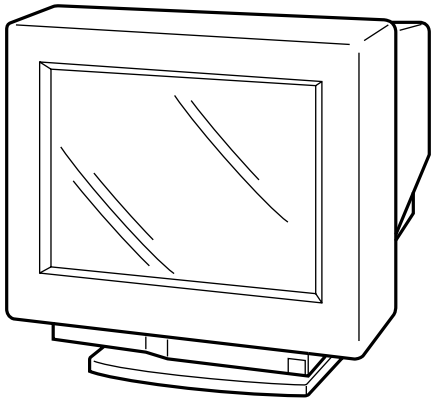
GDM-400PS/400PST/400PST9

SERVICE MANUAL

REVISED



GDM-400PS
US Model
Canadian Model
Australian Model
Equator Model

GDM-400PST
AEP Model
UK Model

GDM-400PST9
AEP Model

Chassis No. SCC-L17A-A

N3 CHASSIS

SPECIFICATIONS

Picture tube	0.25 – 0.27 mm aperture grille pitch 19 inches measured diagonally 90-degree deflection
Viewable image size	Approx. 365 × 273 mm (w/h) (14 3/8 × 10 3/4 inches) 18.0″ viewing image
Resolution	Horizontal: Max. 1600 dots Vertical: Max. 1200 lines
Standard image area	Approx. 330 × 264 mm (w/h) (13 × 10 1/2 inches) or Approx. 352 × 264 mm (w/h) (13 7/8 × 10 1/2 inches)
Deflection frequency	Horizontal: 30 to 94 kHz Vertical: 48 to 160 Hz
AC input voltage/current	100 to 240 V, 50 – 60 Hz, 1.8 – 1.0 A
Power consumption	Max. 130 W
Dimensions	444 × 467 × 453 mm (w/h/d) (17 1/2 × 18 1/2 × 17 7/8 inches)
Mass	Approx. 25 kg (55 lb 2 oz)
Supplied accessories	See page 6

TRINITRON® COLOR GRAPHIC DISPLAY

MICROFILM

SONY®

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

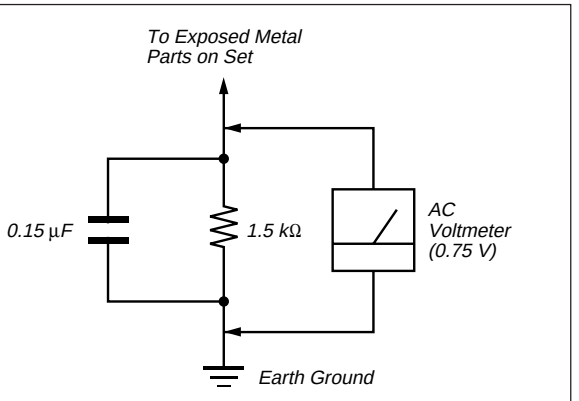
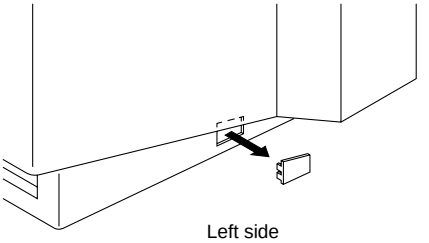


Fig. A. Using an AC voltmeter to check AC leakage.

CAUTION ON DAS (ECS) CONNECTOR

- The connector for DAS (ECS) adjustment is provided inside the cover shown below. Be careful with an electrical shock when connecting the connector with the power supplied. Also, return the removed cover to the home position.



Left side

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes).

Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

WARNING!!

NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!

NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

POWER SAVING FUNCTION

This monitor meets the power-saving guidelines set by VESA and Energy Star, as well as the more stringent NUTEK .
If the monitor is connected to a computer or video graphics board that is VESA DPMS (Display Power Management Signaling) compliant, the monitor will automatically reduce power consumption in three stages as shown below.
You can set the delay time before the monitor enters the power saving mode using the OSD. Set the time according to "Setting the power saving delay time" on page 16.

Note

If no video signal is input to the monitor, the "NO INPUT SIGNAL" message (page 20) appears. After the delay time has passed, the power saving function automatically puts the monitor into the active-off mode and the ⏻ indicator lights up orange. Once the horizontal and vertical sync signals are detected, the monitor automatically resumes its normal operation mode.

	Power consumption mode	Screen	Horizontal sync signal	Vertical sync signal	Power consumption	Recovery time	⏻ indicator
1	Normal operation	active	present	present	≤ 160 W (GDM-500PS) ≤ 130 W (GDM-400PS)	—	Green
2	Standby (1st mode)	blank	absent	present	≤ 100 W (GDM-500PS) ≤ 85 W (GDM-400PS)	Approx. 3 sec.	Green and orange alternate
3	Suspend (2nd mode)	blank	present	absent	≤ 15 W	Approx. 3 sec.	Green and orange alternate
4	Active-off (3rd mode)	blank	absent	absent	≤ 5 W	Approx. 10 sec.	Orange
5	Power-off	—	—	—	0 W	—	Off

DIAGNOSIS

Failure	Power LED
+B failure	Amber (0.5 sec) → Off (0.5 sec)
Horizontal / Vertical Deflection failure, Thermal protector	Amber (1.5 sec) → Off (0.5 sec)
ABL protector	Amber (0.5 sec) → Off (1.5 sec)
HV failure	Amber (0.25 sec) → Off (0.5 sec) → Amber (0.25 sec) → Off (1.25 sec)
Aging / Self Test	Amber (0.5 sec) → Off (0.5 sec) → Green (0.5 sec) → Off (0.5 sec)

Aging Mode (Video Aging) : During Power Save, press "MENU" key for longer than 2 second.
Self Test (OSD Color Bar) : During Power Save, press "CONTRAST" + (➡) key for longer than 2 second.
Reliability Check Mode : During Power Save, press "CONTRAST"– (⬅) key for longer than 2 second.

TIMING SPECIFICATION

MODE AT PRODUCTION	MODE 1	MODE 2	MODE 3
RESOLUTION	738 X 414	1280 X 960	1600 X 1200
CLOCK	28.322 MHZ	148.500 MHZ	202.500 MHZ
-- HORIZONTAL --			
H-FREQ	31.469 kHz	85.938 kHz	93.750 kHz
	usec	usec	usec
H. TOTAL	31.777	11.636	10.667
H. BLK	5.720	3.017	2.765
H. FP	0.318	0.431	0.316
H. SYNC	3.813	1.077	0.948
H. BP	1.589	1.508	1.501
H. ACTIV	26.057	8.620	7.901
-- VERTICAL --			
V. FREQ(HZ)	70.087 Hz	85.002 Hz	75.000 Hz
	lines	lines	lines
V. TOTAL	449	1011	1250
V. BLK	35	51	50
V. FP	5	1	1
V. SYNC	2	3	3
V. BP	28	47	46
V. ACTIV	414	960	1200
-- SYNC --			
INT(G)	NO	NO	NO
EXT(H/V)/POLARITY	YES N/P	YES P/P	YES P/P
EXT(CS)/POLARITY	NO	NO	NO
INT/NON INT	NON INT	NON INT	NON INT

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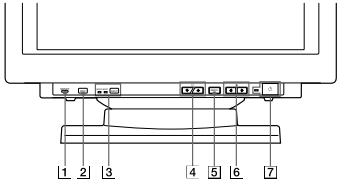
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

SECTION 1
GENERAL

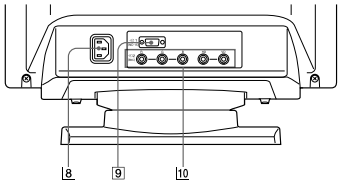
Identifying Parts and Controls

See the pages in parentheses for further details.
GDM-500PS is used for illustration purposes throughout this manual.

Front



Rear



1 **RESET (reset) button (page 17)**
Resets the adjustments to the factory settings.

2 **ASC (auto sizing and centering) button (page 7)**
Automatically adjusts the size and centering of the images.

3 **INPUT (input) button and HD15/BNC indicators (page 8)**
Selects the HD15 or 5BNC video input signal. Each time you press this button, the input signal and corresponding indicator alternate.

4 ☼ **(brightness) (🡓/🡑) buttons (pages 8 – 17)**
Adjust the picture brightness.

Function as the (🡓/🡑) buttons when adjusting other items.

5 **MENU (menu) button (pages 8 -17)**
Displays the MENU OSD.

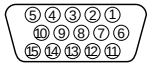
6 ◑ **(contrast) (⬅/➡) buttons (pages 8 – 17, 22)**
Adjust the contrast.

Function as the (⬅/➡) buttons when adjusting other items.

7 ⏻ **(power) switch and indicator (pages 19, 22)**
Turns the monitor on or off.
The indicator lights up in green when the monitor is turned on, and lights up in orange when the monitor is in power saving mode.

8 **AC IN connector**
Provides AC power to the monitor.

9 **Video input 1 connector (HD15)**
Inputs RGB video signals (0.700 Vp-p, positive) and SYNC signals.



Pin No.	Signal	Pin No.	Signal
1	Red	8	Blue Ground
2	Green (Composite Sync on Green)	9	DDC + 5V*
		10	Ground
		11	ID (Ground)
3	Blue	12	Bi-Directional Data (SDA)*
4	ID (Ground)		
5	DDC Ground*	13	H. Sync
6	Red Ground	14	V. Sync
7	Green Ground	15	Data Clock(SCL)*

* Display Data Channel (DDC) Standard of VESA

10 **Video input 2 connector (5 BNC)**
Inputs RGB video signals (0.700 Vp-p, positive) and SYNC signals.

EN

Setup

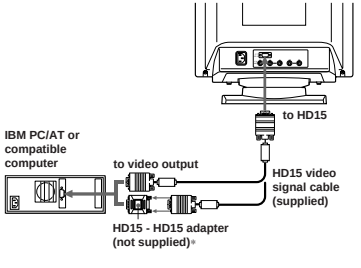
Before using this monitor, check that the following items are included in your carton:
- Monitor (1)
- Power cord (1)
- HD15 video signal cable (1)
- Macintosh adapter (1)
- Windows® 95 Monitor Information Disk/File (1)
- TCO'95 Eco-document (1) (GDM-500PS only)
- Warranty card (1)
- These operating instructions (1)

This monitor works with any IBM or compatible system equipped with VGA or greater graphics capability. Although this monitor works with other platforms running at horizontal frequencies between 30 and 94 kHz (GDM-400PS), 30 and 107 kHz (GDM-500PS), including Macintosh and Power Macintosh systems, a cable adapter is required. Please consult your dealer for advice on which adapter is suitable for your needs.

Step 1: Connect the monitor to the computer

With the computer switched off, connect the video signal cable to the monitor using the supplied HD15 video signal cable.
- If you are using an IBM PC/AT or compatible computer, refer to the section below.
- If you are using a Macintosh or compatible computer, refer to the following section, "Connecting to a Macintosh or compatible computer."
- If you want to use the 5 BNC connectors, refer to the section, "Connecting to the 5 BNC connectors."

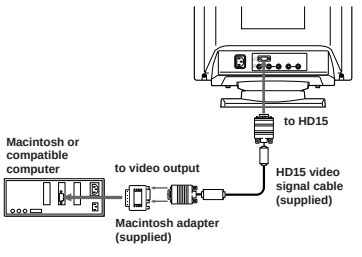
Connecting to an IBM PC/AT or compatible computer


to HD15
IBM PC/AT or compatible computer
to video output
HD15 video signal cable (supplied)
HD15 - HD15 adapter (not supplied)*

* The HD15 - HD15 adapter may be needed for some models.

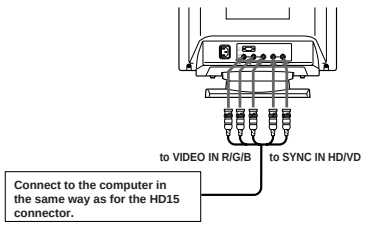
If your PC system is not compatible with DDC2AB and DDC2B+
This monitor uses the No. 9 pin in the video signal connector for DDC2AB and DDC2B+ compatibility.
Some PC systems which are not compatible with either DDC2AB or DDC2B+ may not accept the No. 9 pin. If you are not sure whether your PC system accepts the No. 9 pin or not, use the HD15 (Female) - HD15 (Male without the No. 9 pin) adapter (not supplied). Make sure the male side (without the No. 9 pin) is connected to the computer.

Connecting to a Macintosh or compatible computer



About the supplied Macintosh adapter
The supplied Macintosh adapter is compatible with Macintosh LC, Performa, Quadra and Power Macintosh series computers. Macintosh II series and some older versions of Power Book models may need an adapter with micro switches (not supplied).

Connecting to the 5 BNC connectors

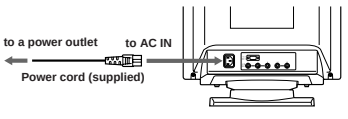


To connect the 5 BNC connectors, use the SMF-400 video signal cable (sold separately). Connect the cables from left to right in the following order: Red–Green–Blue–HD–VD.

Notes
- Do not short the pins of the video signal cable.
- The DDC standard does not apply to the 5 BNC connectors. If you use the DDC standard, connect the HD15 connector to the computer with the supplied video signal cable.

Step 2: Connect the power cord

With the monitor switched off, connect one end of the power cord to the monitor and the other end to a power outlet.



Step 3: Turn on the monitor and computer

The installation of your monitor is complete.

Note

If "OUT OF SCAN RANGE" or "NO INPUT SIGNAL" appears on the screen, see "Warning Messages" on page 20.

For customers using Windows® 95

Install the new model information from the "Windows 95 Monitor Information Disk" into your PC. (To install the file, refer to the attached "About the Windows 95 Monitor Information Disk/File.")

This monitor complies with the "VESA DDC" Plug&Play standard. If your PC/graphics board complies with DDC, select "Plug and Play Monitor (VESA DDC)" as "Monitor type" from "Control Panel" in Windows 95. Some PCs/graphics boards do not comply with DDC. Even if your computer complies with DDC, it may have some problems connecting with this monitor. In this case, select this monitor's model name (GDM-400PS or GDM-500PS) as "Monitor type" in Windows 95.

For customers using Windows NT4.0

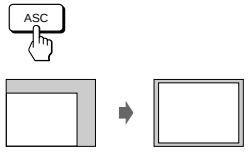
Monitor setup in Windows NT4.0 is different from Windows 95 and does not involve the selection of monitor type. Refer to the Windows NT4.0 instruction manual for further details on adjusting the resolution, refresh rate, and number of colors.

Automatically Adjusting the Size and Centering of the Picture

By pressing the auto sizing and centering (ASC) button, the size and centering of the picture are automatically adjusted to fit the screen.

1 Turn on the monitor and computer.

2 Press the ASC button.
The picture is adjusted to fit the center of the screen.



Notes

- This function is intended for use with a computer running Windows or similar graphic user interface software that provides a full-screen picture. It may not work properly if the background color is dark or if the input picture does not fill the screen to the edges (such as an MS-DOS prompt).
- The screen may go blank for a few seconds while performing the auto-sizing function. This is not a malfunction.
- Although the signals for picture aspect ratio 5:4 (resolution: 1280 × 1024) do not fill the screen to the edges, the picture is accurately displayed.

Selecting the On-screen Display Language

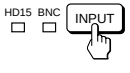
If you need to change the OSD language, see "Using the LANG (Language) On-screen Display" on page 17.
The default setting is English.

Selecting the Input Signal

This monitor has two signal input connectors (HD15 and 5BNC) and can be connected to two computers. When the power of both computers is on, select the input signal you want to view as follows.

1 Turn on the monitor and both computers.

2 Press the INPUT button to select the HD15 or 5BNC input signal.
Each time you press the INPUT button, the input signal and corresponding indicator alternate.



Selecting the INPUT signal mode

This monitor has two modes of input signal selection, "AUTO" and "MANUAL."

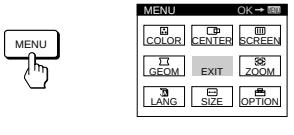
When "AUTO" is selected

If no signal is input from the selected connector, the monitor automatically selects the other connector's signal. When you restart the computer you want to view, or that computer is in power saving mode, the monitor may automatically select the other connector's signal. This is because the monitor switches from the interrupted signal to the constant signal. If this happens, manually select the desired signal using the INPUT button.

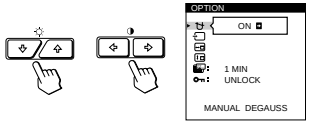
When "MANUAL" is selected

Even if no signal is input from the selected connector, the monitor does not select the other connector's signal.

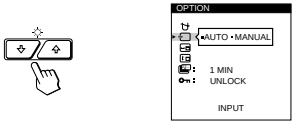
1 Press the MENU button.
The MENU OSD appears.



2 Press the ☼↓/↑ and ◑←/→ buttons to select " OPTION," and press the MENU button again.
The OPTION OSD appears.



3 Press the ☼↓/↑ buttons to select " (INPUT)."



4 Press the ◑←/→ buttons to select "AUTO" or "MANUAL."

The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the MENU button again.

For more information on using the OSD, see "Introducing the On-screen Display System" on page 9.

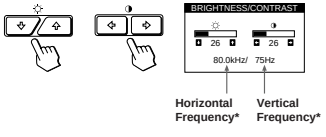
Before adjusting

- Connect the monitor and the computer, and turn them on.
- Select "A LANG" in the MENU OSD, then select "ENGLISH" (see page 17).

Adjusting the Picture Brightness and Contrast

Once the setting is adjusted, it will be stored in memory for all input signals received.

1 Press the ☼ (brightness) ↓/↑ or ◑ (contrast) ←/→ buttons.
The BRIGHTNESS/CONTRAST OSD appears.



2 For brightness adjustment
Press the ☼↓/↑ buttons.

↑ . . . for more brightness
↓ . . . for less brightness

For contrast adjustment
Press the ◑←/→ buttons.

→ . . . for more contrast
← . . . for less contrast

The OSD automatically disappears after about 3 seconds.

To reset, press the RESET button while the OSD is on. The brightness and contrast are both reset to the factory settings.

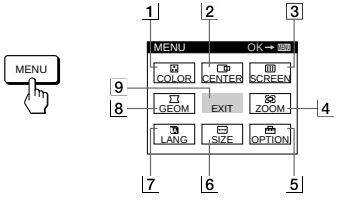
* The horizontal and vertical frequencies for the received input signal appear in the BRIGHTNESS/CONTRAST OSD.

Introducing the On-screen Display System

Most adjustments are made using the MENU OSD.

MENU OSD

Press the MENU button to display the MENU OSD.
This MENU OSD contains links to the other OSDs described below.



EN

1 **COLOR**
Displays the COLOR OSD for adjusting the color temperature.

2 **CENTER**
Displays the CENTER OSD for adjusting the centering of the picture.

3 **SCREEN**
Displays the SCREEN OSD for adjusting the vertical and horizontal convergence, etc.

4 **ZOOM**
Displays the ZOOM OSD for enlarging and reducing the picture.

5 **OPTION**
Displays the OPTION OSD for adjusting the OSD position and degaussing the screen, etc.

6 **SIZE**
Displays the SIZE OSD for adjusting the picture size.

7 **LANG**
Displays the LANGUAGE OSD for selecting the language.

8 **GEOM**
Displays the GEOMETRY OSD for adjusting the picture rotation and pincushion, etc.

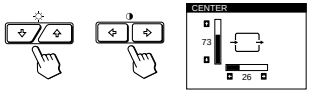
9 **EXIT**
Closes the MENU OSD.

Using the CENTER On-screen Display

The CENTER settings allow you to adjust the centering of the picture.
Once the setting is adjusted, it will be stored in memory for the current input signal.

1 Press the MENU button.
The MENU OSD appears.

2 Press the ☼↓/↑ and ◑←/→ buttons to select " CENTER," and press the MENU button again.
The CENTER OSD appears.



3 For horizontal adjustment
Press the ◑←/→ buttons.

→ . . . to move the picture right
← . . . to move the picture left

For vertical adjustment
Press the ☼↓/↑ buttons.

↑ . . . to move the picture up
↓ . . . to move the picture down

The OSD automatically disappears after about 30 seconds. To close the OSD, press the MENU button again.

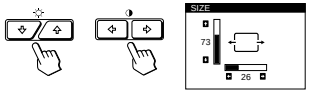
To reset, press the RESET button while the OSD is on. The horizontal and vertical centerings are both reset to the factory settings.

Using the SIZE On-screen Display

The SIZE settings allow you to adjust the size of the picture. Once the setting is adjusted, it will be stored in memory for the current input signal.

1 Press the MENU button.
The MENU OSD appears.

2 Press the ☼↓/↑ and ◑←/→ buttons to select " SIZE," and press the MENU button again.
The SIZE OSD appears.



3 For horizontal adjustment
Press the ◑←/→ buttons.

→ . . . to increase picture size
← . . . to decrease picture size

For vertical adjustment
Press the ☼↓/↑ buttons.

↑ . . . to increase picture size
↓ . . . to decrease picture size

The OSD automatically disappears after about 30 seconds. To close the OSD, press the MENU button again.

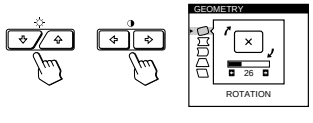
To reset, press the RESET button while the OSD is on. The horizontal and vertical sizes are both reset to the factory settings.

Using the GEOM (Geometry) On-screen Display

The GEOM (geometry) settings allow you to adjust the shape and orientation of the picture.
Once the rotation is adjusted, it will be stored in memory for all input signals received. All other adjustments will be stored in memory for the current input signal.

1 Press the MENU button.
The MENU OSD appears.

2 Press the ☼/↓/↑ and ◑/←/→ buttons to select " GEOM," and press the MENU button again.
The GEOMETRY OSD appears.



3 Press the ☼/↓/↑ buttons to select the item you want to adjust.

Select	To
ROTATION	adjust the picture rotation
PINCUSHION	adjust the picture sides
PIN BALANCE	adjust the picture side balance
KEYSTONE	adjust the picture width
KEY BALANCE	adjust the picture shape balance

4 Press the ◑/←/→ buttons to adjust the settings.

For	Press
ROTATION	→ . . . to rotate the picture clockwise
	← . . . to rotate the picture counterclockwise
PINCUSHION	→ . . . to expand the picture sides
	← . . . to contract the picture sides
PIN BALANCE	→ . . . to move the picture sides to the right
	← . . . to move the picture sides to the left
KEYSTONE	→ . . . to increase the picture width at the top
	← . . . to decrease the picture width at the top
KEY BALANCE	→ . . . to move the top of the picture to the right
	← . . . to move the top of the picture to the left

The OSD automatically disappears after about 30 seconds.
To close the OSD, press the MENU button again.

To reset, press the RESET button while the OSD is on.
The selected item is reset to the factory setting.

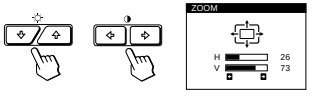
Customizing Your Monitor

Using the ZOOM On-screen Display

The ZOOM settings allow you to enlarge or reduce the picture.
Once the setting is adjusted, it will be stored in memory for the current input signal.

1 Press the MENU button.
The MENU OSD appears.

2 Press the ☼/↓/↑ and ◑/←/→ buttons to select " ZOOM," and press the MENU button again.
The ZOOM OSD appears.



3 Press the ◑/←/→buttons to adjust the picture zoom.

→ . . . to enlarge the picture
← . . . to reduce the picture

The OSD automatically disappears after about 30 seconds.
To close the OSD, press the MENU button again.

To reset, press the RESET button while the OSD is on.

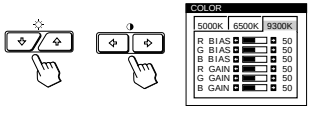
Note
The picture zoom adjustment will stop as soon as either the horizontal or vertical size reaches its maximum or minimum value.

Using the COLOR On-screen Display

You can change the monitor's color temperature. For example, you can adjust or change the colors of a picture on the screen to match the actual colors of the printed picture.
Once the setting is adjusted, it will be stored in memory for all input signals received.

1 Press the MENU button.
The MENU OSD appears.

2 Press the ☼/↓/↑ and ◑/←/→ buttons to select " COLOR," and press the MENU button again.
The COLOR OSD appears.

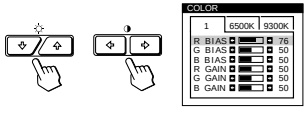


3 Press the ◑/←/→ buttons to select the color temperature.

There are three color temperature modes in the OSD.
The preset adjustments are:
5000K, 6500K, 9300K

4 Fine tuning the color temperature

Press the ☼↓/↑ buttons to select an item and adjust by pressing the ◑←/→ buttons.



Select **R (red), G (green), or B (blue) BIAS** to adjust the black level of each color's signal.

Select **R (red), G (green), or B (blue) GAIN** to adjust the white level of each color's signal.

The "5000K," "6500K" or "9300K" disappears and the new color settings are memorized for each of the three color modes.
The color temperature modes change as follows:
5000K→ 1, 6500K→ 2, 9300K→ 3

The OSD automatically disappears after about 30 seconds. To close the OSD, press the MENU button again.

To reset, press the RESET button while the OSD is on. The selected item is reset to the factory settings.

Using the SCREEN On-screen Display

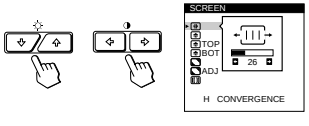
You can adjust convergence settings to eliminate red or blue shadows that may appear around objects on the screen.
Adjust the CANCEL MOIRE function to eliminate wavy or elliptical patterns that may appear on the screen.
Adjust the LANDING function to correct color imbalances at the four corners of the screen due to influence from the earth's magnetism.
Once CANCEL MOIRE is adjusted, it will be stored in memory for the current input signal. All other adjustments will be stored in memory for all input signals received.

1 Press the MENU button.

The MENU OSD appears.

2 Press the ☼↓/↑ and ◑←/→ buttons to select " SCREEN," and press the MENU button again.

The SCREEN OSD appears.



3 Press the ☼↓/↑ buttons to select the item you want to adjust.

Select	To
H CONVERGENCE	adjust the horizontal convergence
V CONVERGENCE	adjust the vertical convergence
TOP V CONVER TOP	adjust the screen's upper vertical convergence
BOT V CONVER BOTTOM	adjust the screen's lower vertical convergence

(continued)

Select	To
LANDING	select one of the four corners that needs color correction due to influence from the earth's magnetism
ADJ LANDING ADJUST	correct the color at one of the four corners of the screen
CANCEL MOIRE *	turn the moire cancellation function "ON" or "OFF." CANCEL MOIRE must be "ON" for " ADJ (MOIRE ADJUST)" to appear on the screen.
ADJ MOIRE ADJUST	adjust the degree of moire cancellation

* Moire is a type of natural interference which produces soft or wavy lines on your screen. It may appear due to interference between the regulated pattern of the picture from the input signal and the phosphor pitch pattern of the CRT.

Example of moire:

4 Press the ◑←/→ buttons to adjust the settings.

For	Press
H CONVERGENCE	→ . . . to shift red shadows to the right and blue shadows to the left ← . . . to shift red shadows to the left and blue shadows to the right
V CONVERGENCE	→ . . . to shift red shadows up and blue shadows down ← . . . to shift red shadows down and blue shadows up
TOP V CONVER TOP	→ . . . to shift red shadows up and blue shadows down ← . . . to shift red shadows down and blue shadows up
BOT V CONVER BOTTOM	→ . . . to shift red shadows up and blue shadows down ← . . . to shift red shadows down and blue shadows up
LANDING	→ or ← . . . to select the corner of the screen you want to adjust : top left : top right : bottom left : bottom right
ADJ LANDING ADJUST	→ or ← . . . to reduce any irregularities in the color to a minimum
CANCEL MOIRE	→ . . . to turn CANCEL MOIRE "ON" ← . . . to turn CANCEL MOIRE "OFF"
ADJ MOIRE ADJUST	→ or ← . . . to adjust the screen until the moire is at a minimum

Note

The picture may become fuzzy when CANCEL MOIRE is set to "ON."

The OSD automatically disappears after about 30 seconds. To close the OSD, press the MENU button again.

To reset, press the RESET button while the OSD is on. The selected item is reset to the factory setting.

EN

Using the OPTION On-screen Display

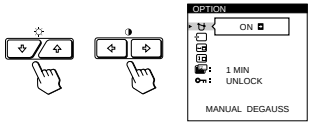
The OPTION OSD allows you to manually degauss the screen and adjust settings such as the OSD position and power saving delay time. It also allows you to lock the controls.

Degaussing the screen

The monitor screen is automatically degaussed (demagnetized) when the power is turned on.
You can also manually degauss the monitor.

1 Press the MENU button.
The MENU OSD appears.

2 Press the ☼/↓/↑ and ◑/←/→ buttons to select " OPTION," and press the MENU button again.
The OPTION OSD appears.



3 Press the ☼/↓/↑ buttons to select " (MANUAL DEGAUSS)."

4 Press the ◑/→ button.
The screen is degaussed for about 3 seconds.

If you need to degauss the screen a second time, wait for at least 20 minutes before repeating the steps above.

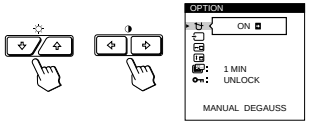
The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the MENU button again.

Changing the on-screen display position

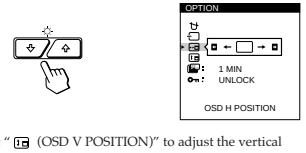
You can change the OSD position (for example, when you want to adjust the picture behind the OSD).

1 Press the MENU button.
The MENU OSD appears.

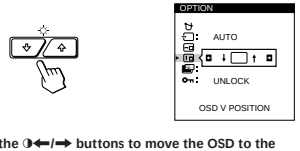
2 Press the ☼/↓/↑ and ◑/←/→ buttons to select " OPTION," and press the MENU button again.
The OPTION OSD appears.



3 Press the ☼/↓/↑ buttons to select " (OSD H POSITION)" or " (OSD V POSITION)."
Select " (OSD H POSITION)" to adjust the horizontal position.



Select " (OSD V POSITION)" to adjust the vertical position.



4 Press the ◑/←/→ buttons to move the OSD to the desired position.

The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the MENU button again.

To reset, press the RESET button while the OSD is on.

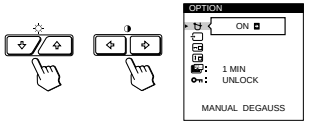
EN

Setting the power saving delay time

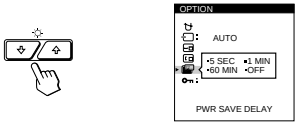
You can set the delay time before the monitor enters the power saving mode. See page 19 for more information on this monitor's power saving capabilities.

1 Press the MENU button.
The MENU OSD appears.

2 Press the ☼/↓/↑ and ◑/←/→ buttons to select " OPTION," and press the MENU button again.
The OPTION OSD appears.



3 Press the ☼/↓/↑ buttons to select " (PWR SAVE DELAY)."



4 Press the ◑/←/→ buttons to select the desired time.

When PWR SAVE DELAY is set to "OFF," the monitor does not go into power saving mode.

The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the MENU button again.

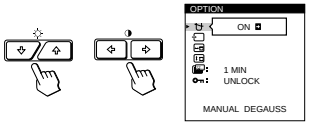
To reset, press the RESET button while the OSD is on.

Locking the controls

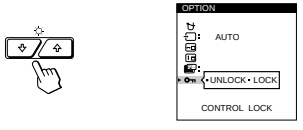
The control lock function disables all of the buttons on the front panel except the ⏻ (power) switch, MENU and INPUT buttons.

1 Press the MENU button.
The MENU OSD appears.

2 Press the ☼/↓/↑ and ◑/←/→ buttons to select " OPTION," and press the MENU button again.
The OPTION OSD appears.



3 Press the ☼/↓/↑ buttons to select " (CONTROL LOCK)."



4 Press the ◑/←/→ buttons to select "LOCK."

The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the MENU button again.

Once you select "LOCK," you cannot select any items except "EXIT" and " OPTION" in the MENU OSD.
If you press any button other than the ⏻ (power) switch, MENU and INPUT buttons, the mark appears on the screen.

To cancel the control lock

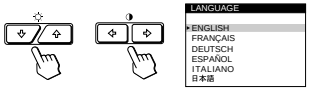
Repeat steps 1 through 3 above and press the ◑/←/→ buttons to select "UNLOCK."

Using the LANG (Language) On-screen Display

English, French, German, Spanish, Italian and Japanese versions of the OSDs are available.

1 Press the MENU button.
The MENU OSD appears.

2 Press the ☼↓/↑ and ◑←/→ buttons to select " LANG," and press the MENU button again.
The LANGUAGE OSD appears.



3 Press the ☼↓/↑ buttons to select the desired language.

ENGLISH: English, FRANÇAIS: French,
DEUTSCH: German, ESPAÑOL: Spanish,
ITALIANO: Italian, or 日本語 : Japanese.

The OSD automatically disappears after about 30 seconds. To close the OSD, press the MENU button again.

To reset to English, press the RESET button while the OSD is on.

Resetting the Adjustments

Resetting an adjustment item

1 Press the MENU, ☼↓/↑ and ◑←/→buttons to select the OSD containing the item you want to reset.

2 Press the ☼↓/↑ buttons to select the item you want to reset.

3 Press the RESET button.

Resetting all of the adjustment data for the current input signal

When there is no OSD displayed, press the RESET button.
All of the adjustments data for the current input signal is reset to the factory settings.
Note that adjustment data not affected by changes in input signal (OSD language, OSD position, input signal selection, power saving delay time and the control lock function) is not reset to the factory settings.

Resetting all of the adjustment data for all input signals

Press and hold the RESET button for more than two seconds.
All of the adjustment data, including the brightness and contrast, is reset to the factory settings.

EN

1-7

Preset and User Modes

This monitor has factory preset modes for the most popular industry standards for true "plug and play" compatibility.

When a new input signal is entered, the monitor selects the appropriate factory preset mode and momentarily adjusts the phase calibration to provide a high quality picture to the center of the screen. The calibration is stored in memory and is immediately recalled whenever the same input signal is received.

No.	Resolution (dots × lines)	Horizontal Frequency	Vertical Frequency	Graphics Mode
1	640 × 350	31.5 kHz	70 Hz	MCGA
2	640 × 480	31.5 kHz	60 Hz	VGA-G
3	640 × 480	37.5 kHz	75 Hz	EVGA
4	640 × 480	43.3 kHz	85 Hz	VESA
5	720 × 400	31.5 kHz	70 Hz	VGA-Text
6	720 × 400	37.9 kHz	85 Hz	VESA
7	800 × 600	37.9 kHz	60 Hz	SVGA
8	800 × 600	46.9 kHz	75 Hz	ESVGA
9	800 × 600	53.7 kHz	85 Hz	VESA
10	832 × 624	49.7 kHz	75 Hz	Macintosh 16″ Color
11	1024 × 768	48.4 kHz	60 Hz	VESA
12	1024 × 768	56.5 kHz	70 Hz	VESA
13	1024 × 768	60.0 kHz	75 Hz	EUVGA
14	1024 × 768	60.2 kHz	75 Hz	Macintosh 19″ Color
15	1024 × 768	68.7 kHz	85 Hz	VESA
16	1152 × 864	67.5 kHz	75 Hz	VESA
17	1152 × 870	68.7 kHz	75 Hz	Macintosh 21″ Color
18	1280 × 960	60.0 kHz	60 Hz	VESA
19	1280 × 960	85.9 kHz	85 Hz	VESA
20	1280 × 1024	64.0 kHz	60 Hz	VESA
21	1280 × 1024	80.0 kHz	75 Hz	VESA
22	1280 × 1024	91.1 kHz	85 Hz	VESA
23	1600 × 1200	75.0 kHz	60 Hz	VESA
24	1600 × 1200	81.3 kHz	65 Hz	VESA
25	1600 × 1200	87.5 kHz	70 Hz	VESA
26	1600 × 1200	93.8 kHz	75 Hz	VESA
27 *	1600 × 1200	106.3 kHz	85 Hz	VESA

* GDM-500PS only

For input signals that do not match one of the factory preset modes, the digital Multiscan technology of this monitor performs all of the adjustments necessary to ensure that a clear picture appears on the screen for any timing in the monitor's frequency range. However, it may be necessary to fine tune the vertical/horizontal size and centering. Simply press the ASC button or adjust the monitor according to the adjustment instructions. The adjustments are stored automatically as a user mode and recalled whenever the corresponding input signal is received. A total of 15 user adjusted modes can be stored in memory, including those made with the ASC button. If a 16th mode is entered, it will replace the first.

Recommended horizontal and vertical timing conditions

Horizontal sync width duty should be: >4.8% of total horizontal time.
Horizontal blanking width should be: >2.5 µsec.
Vertical blanking width should be: > 450 µsec.

Note for Windows® users

For Windows users, check your video board manual or the utility program which comes with your graphic board and select the highest available refresh rate to maximize monitor performance.

Adjusting the monitor's resolution and color number

If you are using Windows 95, adjust the monitor's resolution and color number according to the steps below. Refer also to the Windows 95 HELP files.
If you are using a Macintosh or compatible computer, Refer to your computer's instruction manual.

1 Click the Start button and point to Settings. Then double-click the Control Panel.

2 Double-click the Display icon.

3 Click Settings.

4 Click the Color palette. Point to the desired color number and click.
Point to the Desktop area and drag the slider to the desired resolution.

5 Click OK.

Note

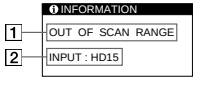
Some settings may require that the computer be turned off then back on to take effect. In this case, follow the on-screen instructions.

About the color number

- The Color palette setting and the actual number of colors is as follows:
  High Color (16 bit) → 65,536 colors
  True Color (24 bit) → about 1,677 million colors
- In True color mode (24 bit), speed may be slower.
- The color number may vary according to your computer or video board.

Warning Messages

If there is something wrong with the input signal, one of the following messages appears.



1 The input signal condition

"OUT OF SCAN RANGE" indicates that the input signal is not supported by the monitor's specifications.

"NO INPUT SIGNAL" indicates that no signal is input, or the input signal from the selected input connector is not received.

2 The selected input connector

Indicates which input connector is receiving the wrong signal. If there is something wrong with the signal from both input connectors, "HD15" and "BNC" are displayed alternately.

To solve these problems, see "Troubleshooting" below.

Troubleshooting

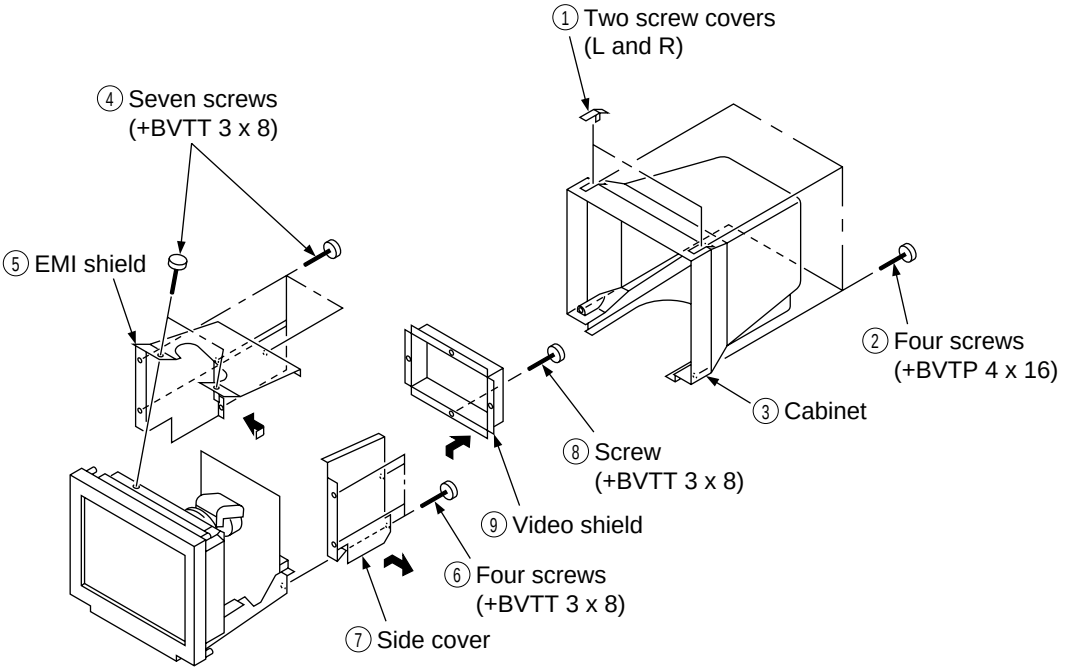
This section may help you isolate the cause of a problem and as a result, eliminate the need to contact technical support.

Symptom	Check these items
No picture	
If the ⏻ indicator is not lit	• Check that the power cord is properly connected. • Check that the ⏻ (power) switch is in the "on" position.
If the "NO INPUT SIGNAL" message appears on the screen, or if the ⏻ indicator is either orange or alternating between green and orange	• The screen is blank when the monitor is in power saving mode. Try pressing any key on the computer keyboard. • Check that your computer power switch is in the "on" position. • Check that the input select setting is correct. • Check that the video signal cable is properly connected and all plugs are firmly seated in their sockets. • Check that the 5 BNCs are connected in the correct order (from left to right: Red–Green–Blue–HD–VD) (page 6). • Ensure that no pins are bent or pushed in the HD15 video input connector. • Check that the video board is completely seated in the proper bus slot.
If the "OUT OF SCAN RANGE" message appears on the screen	• Check that the video frequency range is within that specified for the monitor. Horizontal: 30 – 94 kHz (GDM-400PS), 30 – 107 kHz (GDM-500PS) Vertical: 48 – 160 Hz Refer to your computer's instruction manual to adjust the video frequency range. • If you are using a video signal cable adapter, check that it is correct.
If no message is displayed and the ⏻ indicator is green or flashing orange	• See "Self-diagnosis Function" (page 22).
If using a Macintosh system	• Check that the Macintosh adapter and the video signal cable are properly connected (page 6).
If using Windows® 95	• If you cannot find your model's name (GDM-400PS or GDM-500PS) among the Sony monitors in the Windows 95 monitor selection screen, select the DDC standard monitor or install the Windows 95 Monitor Information Disk (page 7). The DDC standard does not apply to the 5 BNC connectors. If you use the DDC standard, connect the computer to the HD15 connector with the supplied video signal cable.
Picture is scrambled	• Check your graphics board manual for the proper monitor setting. • Check this manual and confirm that the graphics mode and the frequency you are trying to operate at is supported. Even if the frequency is within the proper range, some video boards may have a sync pulse that is too narrow for the monitor to sync correctly.

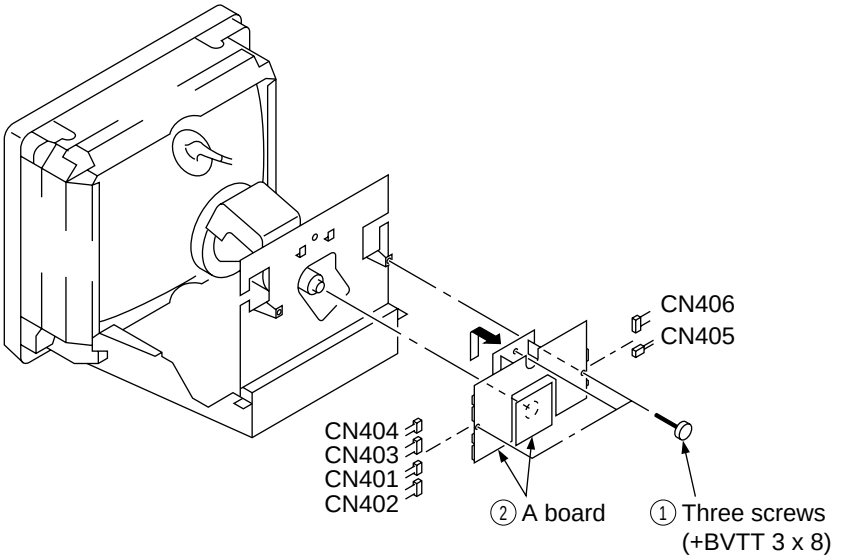
Symptom	Check these items
Color is not uniform	• Degauss the monitor (page 15). If you place equipment which generates a magnetic field, such as a loudspeaker, near the monitor, or you change the direction of the monitor, color may lose uniformity. The degauss function demagnetizes the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result. • Adjust the landing (pages 13 – 14).
You cannot adjust the monitor with the buttons on the front panel	• If the control lock function is set to on, set it to off using the OPTION OSD (page 16).
White does not look white	• Adjust the color temperature (pages 12 – 13). • Check that the 5 BNCs are connected in the correct order (from left to right: Red–Green–Blue–HD–VD) (page 6).
Screen image is not centered or sized properly	• Press the ASC button (page 7). • Adjust the size or centering (page 10). • Some video modes do not fill the screen to the edges. This problem tends to occur with certain video boards.
Edges of the image are curved	• Adjust the geometry (page 11).
White lines show red or blue shadows at edges	• Adjust the convergence (pages 13 – 14).
Picture is fuzzy	• Adjust the contrast and brightness (page 9). • Degauss the monitor (page 15). If you place equipment which generates a magnetic field, such as a loudspeaker, near the monitor, or you change the direction of the monitor, color may lose uniformity. The degauss function demagnetizes the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result. • If red or blue shadows appear along the edges of images, adjust the convergence (pages 13 – 14). • If the moire is cancelled, the picture may become fuzzy. Decrease the moire cancellation effect (pages 13 – 14).
Picture bounces or has wavy oscillations	• Isolate and eliminate any potential sources of electric or magnetic fields. Common causes for this symptom are electric fans, fluorescent lighting or laser printers. • If you have another monitor close to this monitor, increase the distance between them to reduce the interference. • Try plugging the monitor into a different AC outlet, preferably on a different circuit. • Try the monitor on a different computer in a different room.
Picture is flickering	• Set the refresh rate on the computer to obtain the best possible picture by referring to the computer's manual.
Picture appears to be ghosting	• Eliminate the use of video cable extensions and/or video switch boxes if this symptom occurs. Excessive cable length or a weak connection can produce this symptom.
Wavy or elliptical (moire) pattern is visible	• Cancel the moire (pages 13 – 14). The moire may be modified depending on the connected computer. • Due to the relationship between resolution, monitor dot pitch and the pitch of some image patterns, certain screen backgrounds sometimes show moire. Change your desktop pattern.
Two fine horizontal lines (wires) are visible	• These wires stabilize the vertically striped aperture grille (page 19). This aperture grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness.
Hum is heard right after the power is turned on	• When the power is turned on, the auto-degauss cycle is activated. While the auto-degauss cycle is activated (3 seconds), a hum may be heard. The same hum is heard when the monitor is manually degaussed. This is not a malfunction.

SECTION 2
DISASSEMBLY

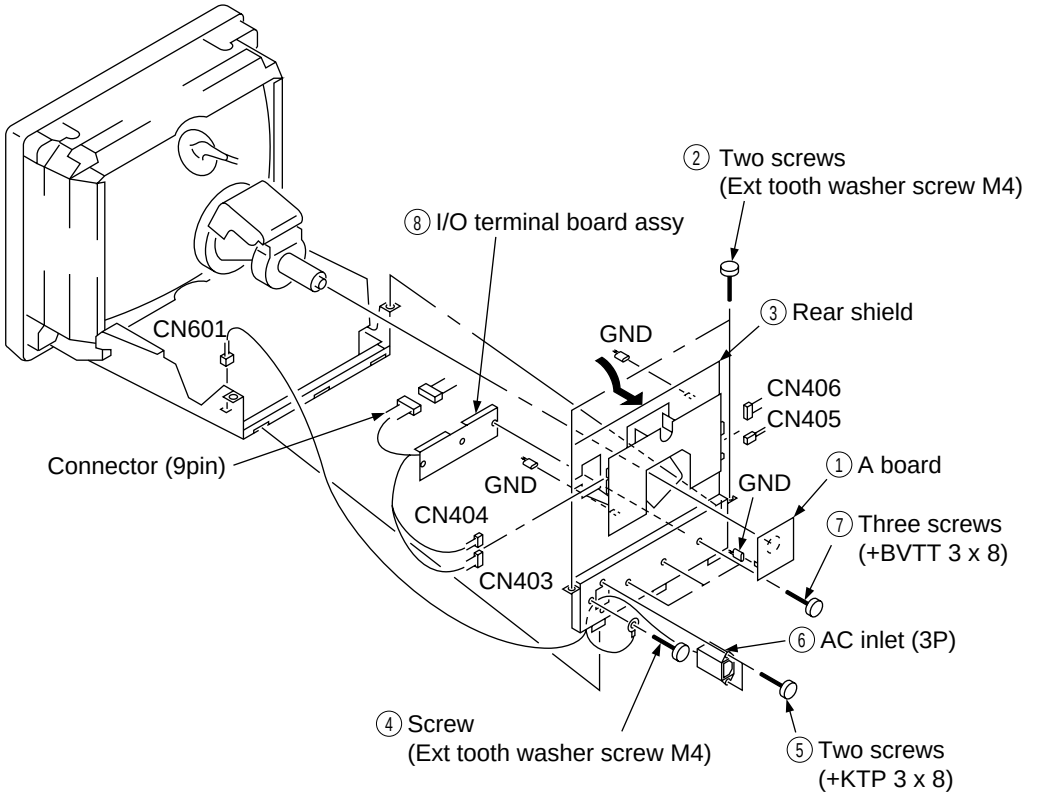
2-1. CABINET REMOVAL



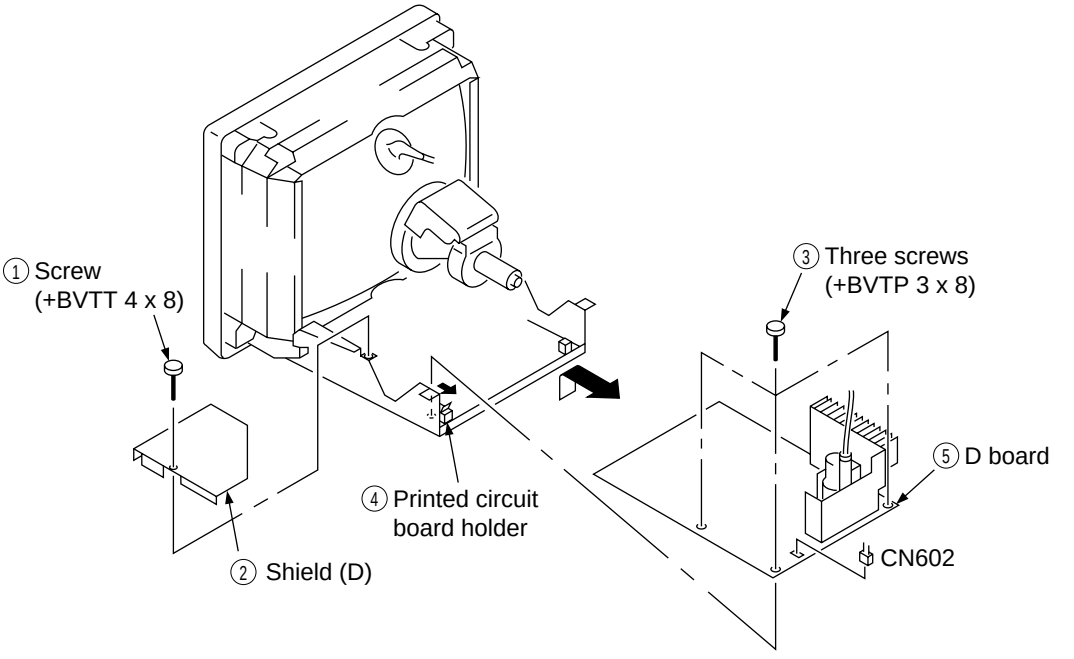
2-2. A BOARD REMOVAL



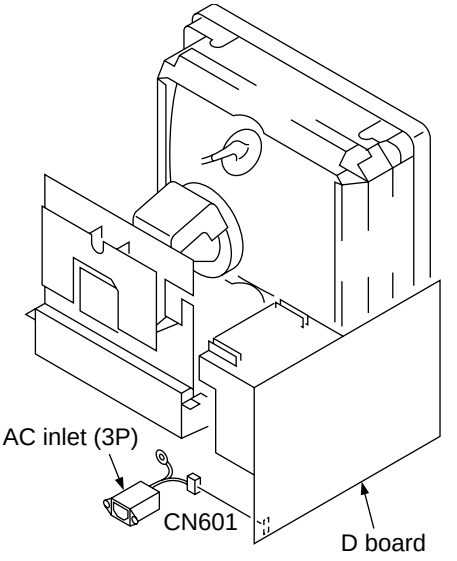
2-3. AC INLET AND I/O TERMINAL BOARD ASSY REMOVAL



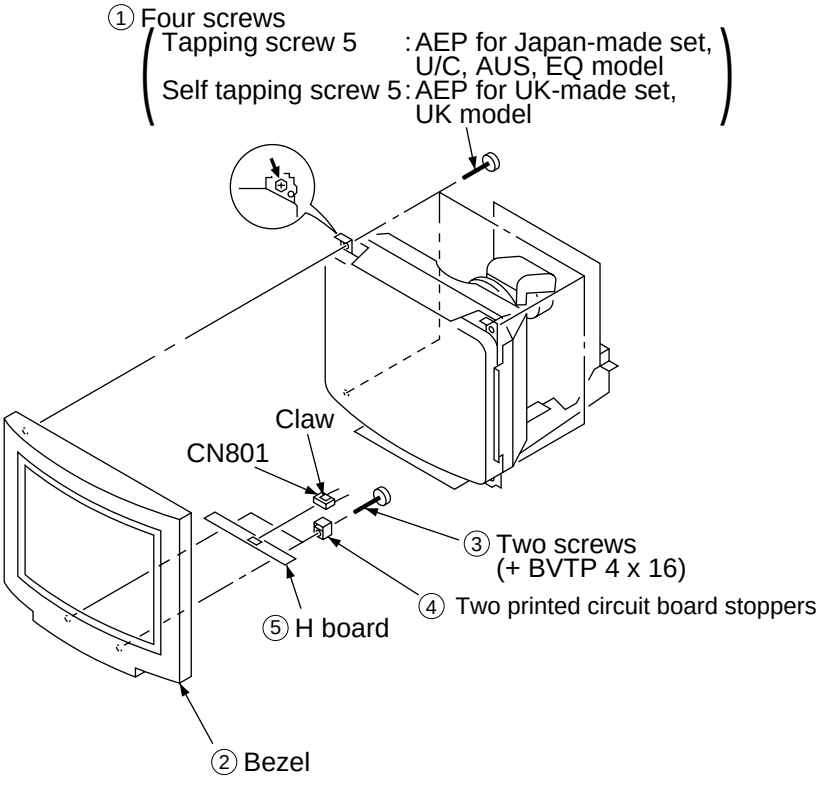
2-4. D BOARD REMOVAL



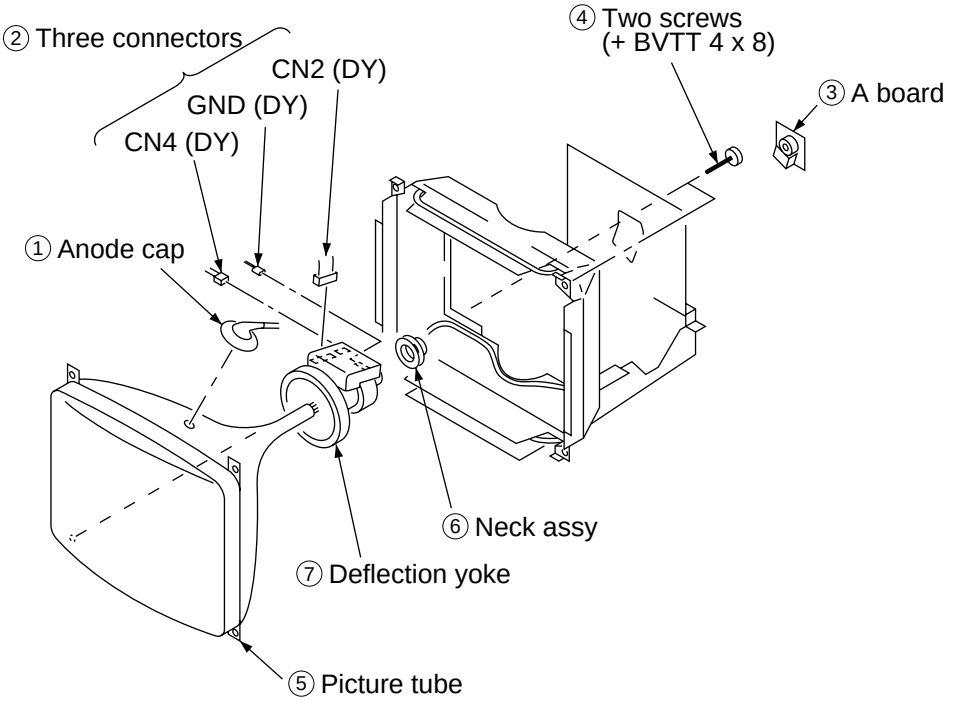
2-5. SERVICE POSITION



2-6. H BOARD REMOVAL


① Four screws
Tapping screw 5 : AEP for Japan-made set, U/C, AUS, EQ model
Self tapping screw 5 : AEP for UK-made set, UK model
Claw
CN801
③ Two screws (+ BVTP 4 x 16)
④ Two printed circuit board stoppers
⑤ H board
② Bezel

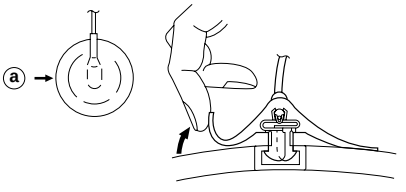
2-7. PICTURE TUBE REMOVAL



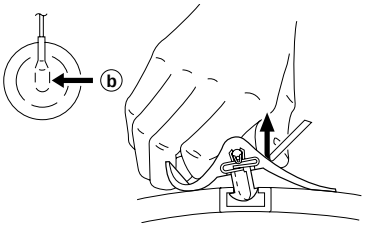
• REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

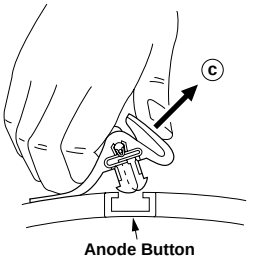
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



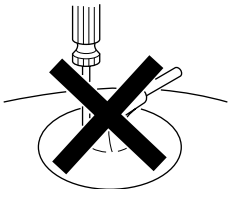
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

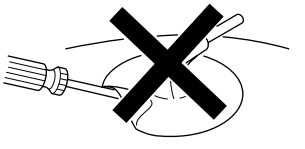


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with shartp shaped material!
② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SAFETY RELATED ADJUSTMENT

When replacing or repairing the shown below table, the following operational checks must be performed as a safety precaution against X-rays emissions from the unit.

	Part Replaced (⋈)
HV ADJ	RV901

	Part Replaced (◪)
HV Regulator Circuit	D board IC901, R903, R922, T901, RV901 • Mounted D board
HV HOLD DOWN Circuit	D board D913, D916, C923, R920, R927, R935, R936, T901 • Mounted D board
Beam Current Protector Circuit	D board IC901, D901, D902, D918, R053, R918, R923, R928, R932, R933, R934, R939, T901 • Mounted D board

* Confirm one minute later turning on the power.

• HV Protector Circuit Check

(1) Confirm that the voltage between cathode of D913 and GND is more than 17.5 V DC.

(2) Using external DC Power Supply, apply the voltage shown below between cathode of D913 and GND, and confirm that the HV HOLD DOWN circuite works. (TV Raster disappears)
Standard voltage: Less than 23.40 V DC

• Beam Current Protector Circuite Check

(1) Hardware logic circuit

- Turn the POWER SW on, and check that the RASTER fades in.
- Connect a variable resistor (20 kΩ or more) and an ammeter in series between FBT pin ⑪ and – 15 V line (– side of C637). Decrease gradually the resistance of the variable resistor from maximum to minimum, and confirm that the Beam Current Protector Circuite works (TV Raster disappears). The current must be within the range shown below.
  Standard current: Less than 1.09 mA

(2) Software logic circuit

- Turn the POWER SW on, and check that the RASTER fades in.
- Short between + of C639 and GND.
- Connect a variable resistor (20 kΩ or more) and an ammeter in series between FBT pin ⑪ and – 15 V line (– side of C637). Decrease gradually the resistance of the variable resistor form maximum to minimum, and confirm that the Beam Current Protector Circuite works (TV Raster disappears). The current must be within the range shown below.
  Standard current: Less than 1.14 mA

SECTION 4
ADJUSTMENTS

• Landing Rough Adjustment

1. Enter the full white signal. (or the full black dots signal).
2. Adjust the contrast to the maximum.
3. Make the screen monogreen.

Note: Off the outputs from R ch and B ch of SG.

4. Reverse the DY, and adjust coarsely the purity magnet so that a green raster positions in the center of screen.
5. Adjust the tilt of DY, and fix lightly with a clamp.

Note: "TILT" shall be set at 128.

• Landing Fine Adjustment

1. Put the set inside the Helmholtz coil.
   Set "LCC SW" at 0.
   And check "LCC LT", "LCC LB", "LCC RT", "LCC RB" at 128.
2. Input the single green signal and set the "CONTRAST" to MAX.
   <Landing adjustment luminance>
   Landing adjustment after 2 hours of aging by Landing adjustment luminance.
   *Landing adjustment luminance
   :same luminance on aging (Reference: SIK=250uA)
   *Max luminance
   : 110 ch/m SIK=750uA
3. Demagnetize the metal part of the chassis with the hand degausser and coil degausser, and the CRT surface with the hand degausser.
   Input AC 230V to AC IN, turn on and off the power to perform auto degaussing. (Perform auto degaussing by setting "MON CON REG2"=152. Return to the original value after use.)
   Demagnetize the CRT surface with the hand degausser again.
   (When degaussing, set the current of LCC at 0.)

Note:

(1) Adjust in a non-magnetic field. BV=45uT.
(2) If adjusting in a magnetic fields, add the shift from the non-magnetic field in your estimation.

4. Attach the wobbling coil to the designated part of the CRT neck.
5. Pull the TLH plate nooked on stopper.
6. Attach the sensor of the landing adjustment unit on the CRT surface.
7. Adjust the DY position and purity, and the DY tilt, and landing of the center and 4 corners with the landing checker.
   Purity Adjustment use 2-pole magnet on DY side, Don't use on Neck Assy one.

<Specifications>

Adjust so that the green is within the specification given right.
4 corner adjust target : within ± 1

(μm)

0 ± 4	0 ± 7.5	0 ± 4
0 ± 4	0 ± 5	0 ± 4
± 4	0 ± 7.5	0 ± 4

0

The red and blue must be within the specification given right with respect to the green.

(μm)

± 5	± 5	± 5
± 5	± 5	± 5
± 5	± 5	± 5

A difference between red and blue must be within the specification given right.

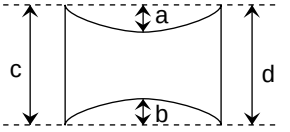
(μm)

8	8	8
8	7	8
8	8	8

* Adjustment and measurement should be made at the points one inch inside the fluorescent screen.

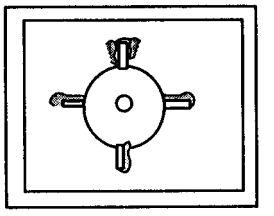
8. Tighten DY screw.
   Torque: 22±2 kgcm (2.2±0.2 Nm)
   Auto-degauss it.
9. Adjustment each top and bottom pins by switching DY neck up-down, and adjust V. TILT and horizontal trapezoid by swinging DY neck right-left. And then fix with 4 wedges. (Insert wedge certainly so that the DY will not loosen.)

Fixing DY with wedges.



"a" and "b" must be equal, and "c" and "d" must be almost equal.

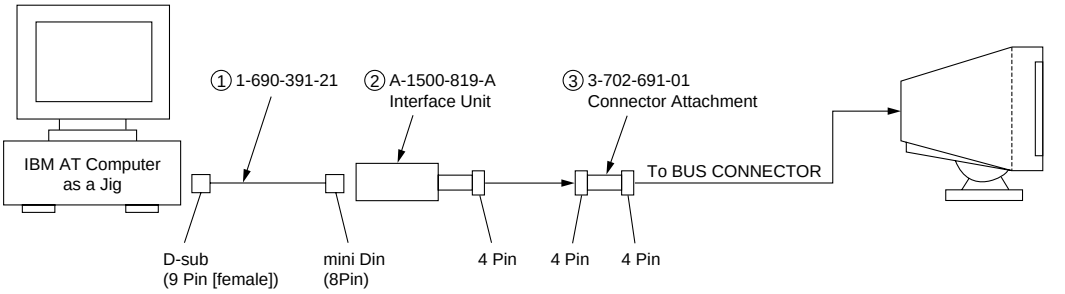
<How to drive in wedges>



Apply a locking agent to the upper wedges only.
In such a case, apply agent so that it enters both sides of wedge and also inside the DY.

10. Check landing at each corner and in case not in specification, adjust by sticking disk magnets on CRT funnel. (After placing disk magnets, absolutely hand degauss and check the results.)
11. Remove the sensor and wobbling coil.
12. Check that the DY is not tilting. Then, fix purity magnets with white paint and fix wedge with RTV.

Connect the communication cable of the computer to the connector located on the D board on the monitor. Run the service software and then follow the instruction.



*The parts above (① ～ ③) are necessary for DAS adjustment.

- **Convergence Rough Adjustment**

(1) Receive an image of the white crosshatch signals (white lines on black).
(2) Place the protrusions of the 6-fold poles magnet attached to the CRT neck upon each other. (Fig. 1)
(3) Make rough adjustment of the H and V direction convergence by using 4-fold poles magnet.

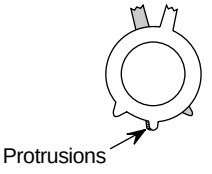
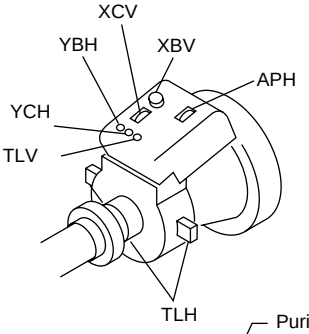


Fig. 1



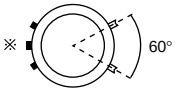
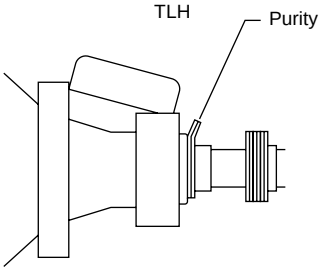
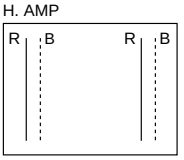
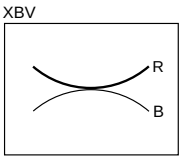


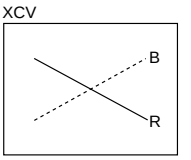
Fig. 3

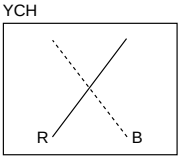
* Set so that the protruding parts of the 2 magnet rings agree with each other.

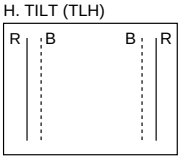


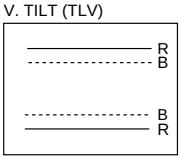


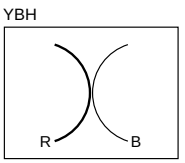




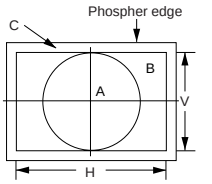








- **Convergence Specification**

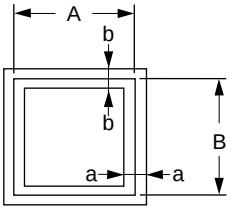


MODE	Zone	N. Hemisphere	S. Hemisphere
fH≧ 60 kHz	A Zone	0.24 mm	0.24 mm
	B Zone	0.24 mm	0.28 mm
	C Zone	0.32 mm	0.36 mm
fH< 60 kHz	A Zone	0.24 mm	0.24 mm
	B Zone	0.32 mm	0.36 mm
	C Zone	0.36 mm	0.40 mm

- **White Balance Adjustment Specification**

(1) COLOR INDEX = 3
x = 0.283 ± 0.005
y = 0.298 ± 0.005
(All White)
(2) COLOR INDEX = 2
x = 0.313 ± 0.005
y = 0.329 ± 0.005
(All White)
(3) COLOR INDEX = 1
x = 0.346 ± 0.005
y = 0.359 ± 0.005
(All White)

- **Vertical and Horizontal Position and Size Specification**

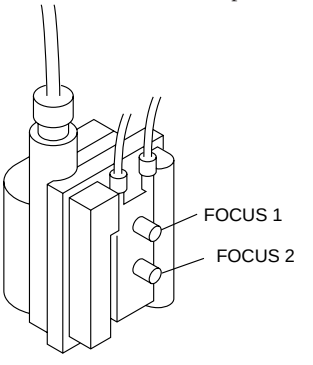


a ≦ 3.2 mm
b ≦ 3.2 mm

MODE	1-3
A	352 mm
B	264 mm

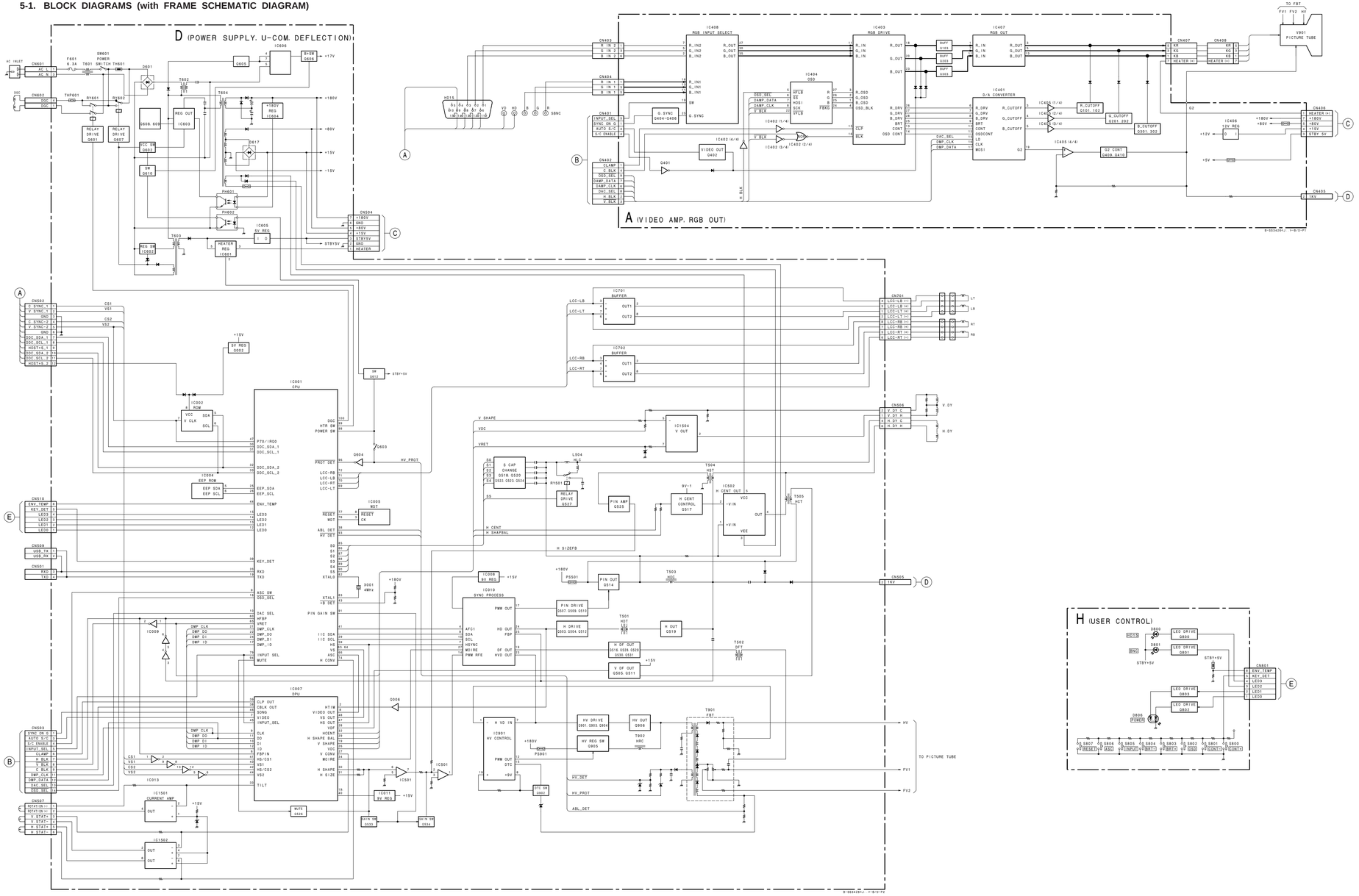
- **Focus adjustment**

Adjust the focus volume 1 and 2 for the optimum focus.

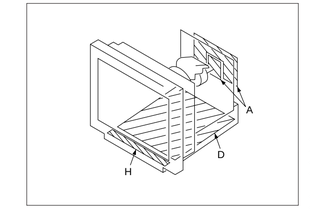


SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAMS (with FRAME SCHEMATIC DIAGRAM)



5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted. (pF: µµF) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- The components identified by **H** in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. (See page 3-1)
- When replacing the part in below table, be sure to perform the related adjustment.

	Part replaced (**H**)
HV ADJ	RV901

	Part replaced (◪)	
HV Regulator Circuit	D board	IC901, R903, R922, T901, RV901 • Mounted D board
HV HOLD DOWN Circuit	D board	D913, D916, C923, R920, R927, R935, R936, T901 • Mounted D board
Beam Current Protector Circuit	D board	IC901, D902, D918, R053, R918, R923, R928, R932, R933, R934, R939, T901 • Mounted D board

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ∗ : Can not be measured.
- Circled numbers are waveform references.
- : B + bus.
- : B – bus.

Terminal name of semiconductors in silk screen printed circuit (∗)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor	T	Collector / Base / Emitter	
②	Transistor	—	Collector / Base / Emitter	
③	Diode		Cathode / Anode	
④	Diode	T	Cathode / Anode / (NC)	
⑤	Diode	—	Cathode / Anode / (NC)	
⑥	Diode	T	Common / Anode / Cathode	
⑦	Diode	—	Common / Anode / Cathode	
⑧	Diode	T	Common / Anode / Anode	
⑨	Diode	—	Common / Anode / Anode	
⑩	Diode	T	Common / Cathode / Cathode	
⑪	Diode	—	Common / Cathode / Cathode	
⑫	Diode	▌	Anode / Cathode / Anode / Cathode	
⑬	Transistor (FET)	▌	Drain / Source / Gate	
⑭	Transistor (FET)	▌	Drain / Source / Gate	
⑮	Transistor (FET)	▌	Source / Drain / Gate	
⑯	Transistor	▌	Emitter / Collector / Base	
–	Discrete semiconductot			

(Chip semiconductors that are not actually used are included.)

VM-3.5

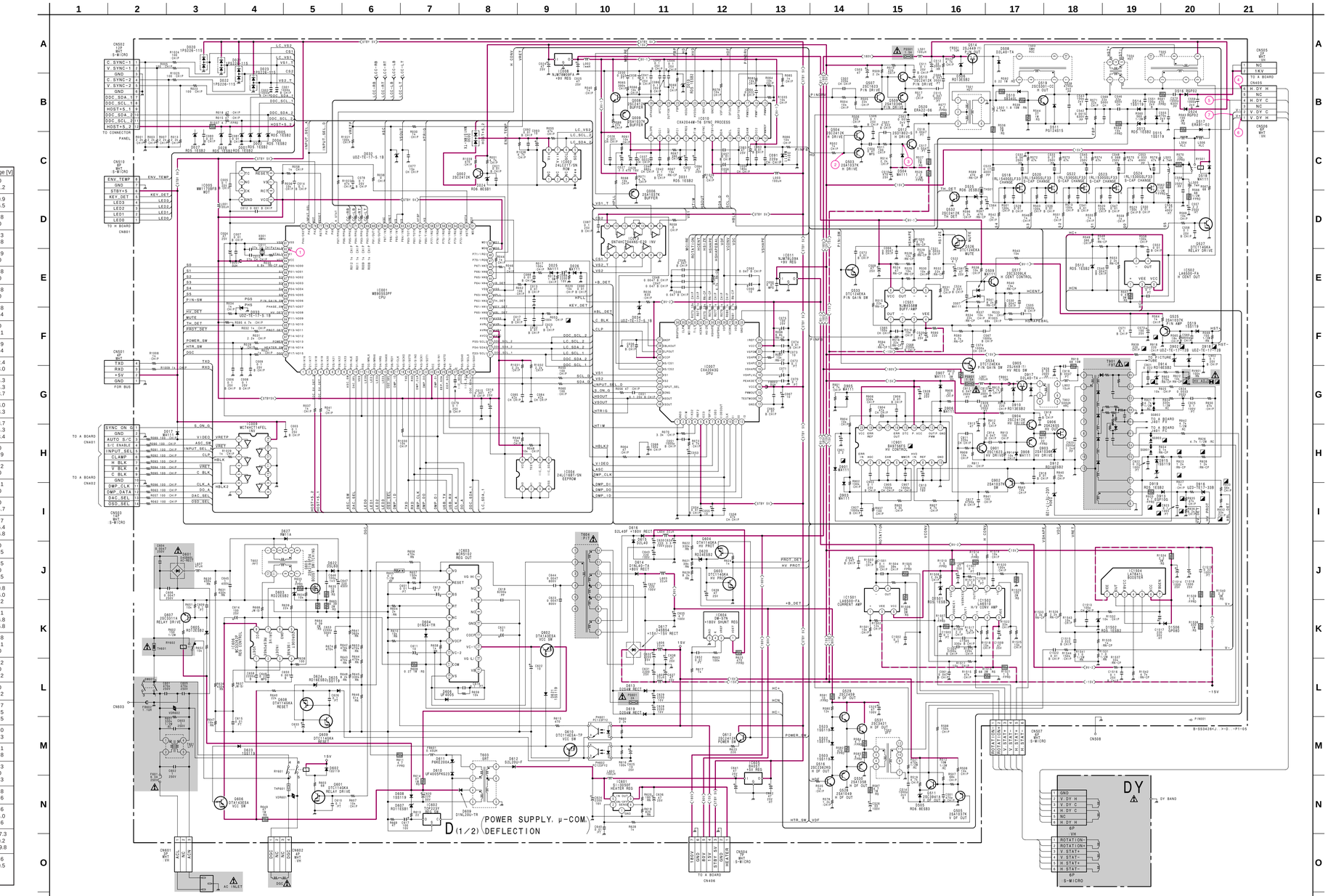
(1) Schematic Diagram of D (1/2) Board

• D BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
IC002	5	0.5
	6	3.5
	7	0
IC004	5	4.9
	6	4.9
	7	0
IC005	1	0.4
	3	0
	7	1.5
	8	4.9
IC009	1	–0.5
	2	0
	3	0
	4	4.4
	5	4.4
	6	0.5
	14	4.9
IC010	1	3.8
	3	+
	4	2.6
	5	2.8
	6	5.0
	7	0.3
	9	4.9
	10	4.9
	12	4.4
	14	4.3
	15	4.3
	16	5.0
	17	2.0
	18	–0.2
	19	5.2
	20	8.6
	23	1.2
	24	2.3
	25	0
	26	3.6
	27	4
	28	4.5
IC013	1	0
	2	5.0
	3	4.0
	4	0
	8	0.3
	9	3.8
	10	4.9
	11	0
IC501	1	4.3
	2	0
	3	0
	5	0
	6	0
	7	–9.8
IC502	1	76.1
	2	76.2
	4	75.6
IC601	2	5.2
	3	6.6
	4	5.2
	5	8.0
IC602	D	412.0
	C	6.0
IC603	1	147.5
	3	3.9
	5	4.5
	6	2.2
	7	3.8
	8	0
	11	0
	12	0
	13	0
	14	16.3
	15	10.6
	17	0
	18	88.5
	19	78.2
IC604	1	179.8
	3	2.5
	4	12.6
IC606	1	2.7
	2	2.6
	3	1.4
	4	0.2
	5	2.5
	7	10.9
IC701	1	–0.3
	2	–0.5
	3	1.3
	4	1.3
	6	1.3
	7	1.3
	8	–1.3
	9	–1.3

Ref.	Pin No.	Voltage [V]
IC702	1	0.8
	2	0.8
	3	1.3
	4	1.3
	6	1.3
	7	1.3
	8	1.6
	9	1.6
IC901	1	9.0
	2	5.3
	4	0
	6	1.1
	7	1.1
	8	9.0
	12	0
	15	0.2
	16	7.8
	19	8.9
IC1501	1	2.8
	2	2.8
	4	–1.3
IC1502	1	0.1
	2	0.1
	3	3.5
	4	3.5
	5	1.8
	7	1.8
	8	0.6
	9	0.6
IC1504	2	0.4
	3	14.0
	4	1.3
	5	1.3
	7	–13.3
PH601	1	14.7
	2	13.6
	3	0
	4	3.8
PH602	1	1.0
	2	0
	3	0
	4	2.6
Q001	B	0
	C	3.7
Q002	B	5.5
	C	14.6
	E	4.8
Q003	B	0
	E	0.2
Q004	B	4.9
	E	4.2
Q006	B	2.6
	E	3.2
Q005	B	4.9
	C	0.1
Q007	B	7.2
	C	0
Q008	B	2.3
	E	2.8
Q503	B	2.3
	E	2.3
Q504	B	2.3
	C	13.5
	E	2.3
Q505	B	3.5
	E	7.0
Q507	B	0.2
	C	8.4
Q509	B	8.4
	E	8.2
Q510	B	8.4
	C	14.2
	E	8.2
Q511	B	7.5
	C	+
	E	7.0
Q512	B	–14.3
	C	–0.1
	E	–14.3
Q514	G	175.8
	D	76.8
	S	180.1
Q516	B	5.2
	C	42.4
	E	4.6
Q517	B	4.9
	C	70.9
	E	4.4

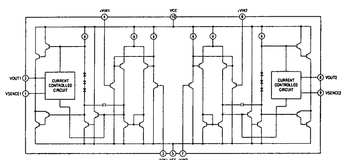
Ref.	Pin No.	Voltage [V]
Q518	G	0
	D	31.2
Q519	B	–0.9
	C	76.5
Q520	G	4.8
	D	0
Q521	B	4.3
	E	3.8
Q522	G	4.9
	D	0
Q523	G	4.8
	D	0
Q524	G	4.8
	D	0
Q525	B	4.8
	E	5.4
Q526	B	0
	C	3.1
Q527	B	4.9
	C	0.4
Q528	B	42.4
	E	43.0
Q529	B	44.3
	C	74.3
	E	43.7
Q530	B	43.0
	E	43.3
Q531	B	43.7
	C	74.3
	E	43.4
Q532	B	0
	C	4.9
Q533	B	5.2
	C	0
Q534	B	5.1
	C	0
Q601	B	0
	C	14.7
Q602	B	2.7
	C	16.4
	E	16.8
Q603	B	0
	C	2.5
Q604	B	2.5
	C	0
	E	2.5
Q605	G	10.8
	D	96.0
	S	0.2
Q606	B	1.1
	C	16.8
	E	16.8
Q607	B	0.8
	C	0.1
	E	0
Q608	B	6.2
	C	0
	E	6.2
Q609	B	0
	C	6.2
Q610	B	5.7
	C	0.5
	E	0.5
Q612	B	5.0
	E	4.3
Q901	B	0.1
	C	8.8
Q902	B	9.3
	C	0
	E	9.3
Q903	B	7.8
	E	7.6
Q904	B	7.6
	C	14.0
	E	7.6
Q905	G	177.3
	D	60.2
	S	179.8
Q906	G	7.6
	D	60.5



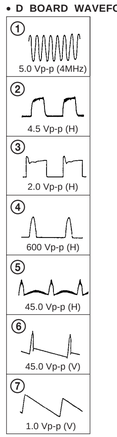
Schematic diagram

D (1/2) board ➡

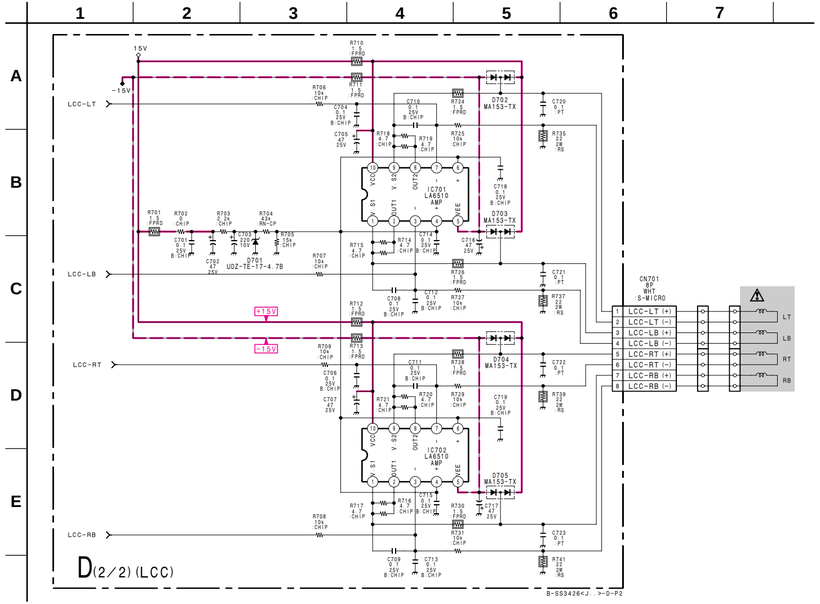
• D BOARD IC701, IC702, IC1502 LA6510



• D BOARD WAVEFORMS



(2) Schematic Diagram of D (2/2) Board



• D BOARD SEMICONDUCTOR LOCATION

IC

	(Conductor Side)	(Component Side)
IC001		A–2
IC002		A–2
IC004		A–2
IC005		B–2
IC007		A–3
IC008	A–1	A–5
IC009		A–2
IC010		A–5
IC011	B–3	B–3
IC013		A–3
IC501		A–5
IC502	C–2	C–4
IC601	B–5	B–1
IC602	C–5	C–1
IC603	C–4	C–1
IC604	F–3	F–3
IC605	B–4	B–2
IC606	D–5	D–1
IC901		F–3
IC1501	A–4	A–1
IC1502	A–5	A–1
IC1504	C–1	C–5

TRANSISTOR

	(Conductor Side)	(Component Side)	*
Q002		A–3	②
Q006	A–1		①
Q008	A–1		①
Q009		A–5	②
Q503	A–1		①
Q504	A–1		①
Q505		D–3	②
Q507		B–5	②
Q509	B–1		①
Q510	B–1		①
Q511	E–3	E–3	–
Q512	G–1	G–5	–
Q514	C–1	C–5	–
Q516	D–3	D–3	–
Q517	C–3	C–3	–
Q518	A–2	A–4	–
Q519	E–1	E–5	–
Q520	A–2	A–4	–
Q522	B–2	B–4	–
Q523	B–1	B–5	–
Q524	B–2	B–4	–
Q525	E–2		①
Q526		A–4	②
Q527	B–3		①
Q528	D–3	D–3	–
Q529	D–3	D–3	–
Q530	D–3	D–3	–
Q531	D–3	D–3	–
Q532	A–2		①
Q533		A–4	②
Q534		A–4	②
Q601	G–3		①
Q602	C–5	C–1	–
Q603	B–4		①
Q604	B–4		①
Q605	E–5	E–1	–
Q606	C–5	C–1	–
Q607	E–4	E–2	–
Q608	C–5		①
Q609	C–5		①
Q610	C–4	C–2	–
Q612	B–4		①
Q901	F–3		①
Q902	E–3		①
Q903	F–3		①
Q904	F–3		①
Q905	G–3	G–3	–
Q906	G–2	G–4	–

DIODE

	(Conductor Side)	(Component Side)	*
D001	A–3	A–3	–
D002	A–3	A–3	–
D004	A–3	A–3	–
D005	A–3	A–3	–
D010	A–1	A–5	–
D016		A–5	①
D017		A–2	③
D020		A–4	⑦
D021		A–4	⑦
D022		A–4	⑦
D023		A–4	⑦
D024	A–3	A–3	–
D027	A–3	A–3	–
D028	A–3	A–3	–
D029	A–3		⑥
D030	A–4		⑥
D031	A–1	A–5	–
D032		A–2	③
D033	B–4		③
D503	D–3	D–3	–
D504	G–1		③
D505	E–3	E–3	–
D506	C–1	C–5	–
D508	D–1	D–5	–
D509	C–2		③
D510	F–1	F–5	–
D511	E–1	E–5	–
D512	C–3	C–3	–
D513	E–1	E–5	–
D514	E–1	E–5	–
D515	E–1	E–5	–
D516	D–1	D–5	–
D517	D–2	D–4	–
D518	B–3		③
D519	E–1	E–5	–
D520	D–2	D–3	–
D522	D–3	D–3	–
D523	D–3	D–3	–
D524	D–1	D–5	–
D525	A–2	A–4	–
D601	F–4	F–2	–
D602	G–3	G–2	–
D603	E–5	E–1	–
D604	D–5	D–1	–
D605	E–4	E–2	–
D606	C–5	C–1	–
D607	C–5	C–1	–
D608	C–5	C–1	–
D609	C–5	C–1	–
D610	C–4	C–1	–
D611	C–5	C–1	–
D612	B–5	B–1	–
D613	C–3	C–3	–
D614	E–3	E–3	–
D615	E–3	E–3	–
D616	E–3	E–3	–
D617	C–3	C–2	–
D619	C–3	C–3	–
D620	B–4	B–2	–
D621	C–5	C–1	–
D622	D–4	D–2	–
D623	C–5	C–1	–
D624	C–5	C–1	–
D625	C–5	C–1	–
D627	E–4	E–2	–
D901		E–3	③
D902		E–3	③
D903	E–3		③
D904		E–3	③
D905		F–3	③
D906		E–3	③
D907		E–3	③
D908	F–3		③
D910	G–3	G–3	–
D912	G–2	G–3	–
D913	E–2	E–3	–
D914	F–1	F–5	–
D915	E–3	E–3	–
D916	B–4		③
D917	G–3	G–3	–
D918		E–3	③
D919	E–3	E–3	–
D1501	A–5	A–1	–
D1502	B–2	B–4	–
D1506	B–1	B–5	–

VARIABLE RESISTOR

	(Conductor Side)	(Component Side)
RV901	G–2	G–4

CRYSTAL

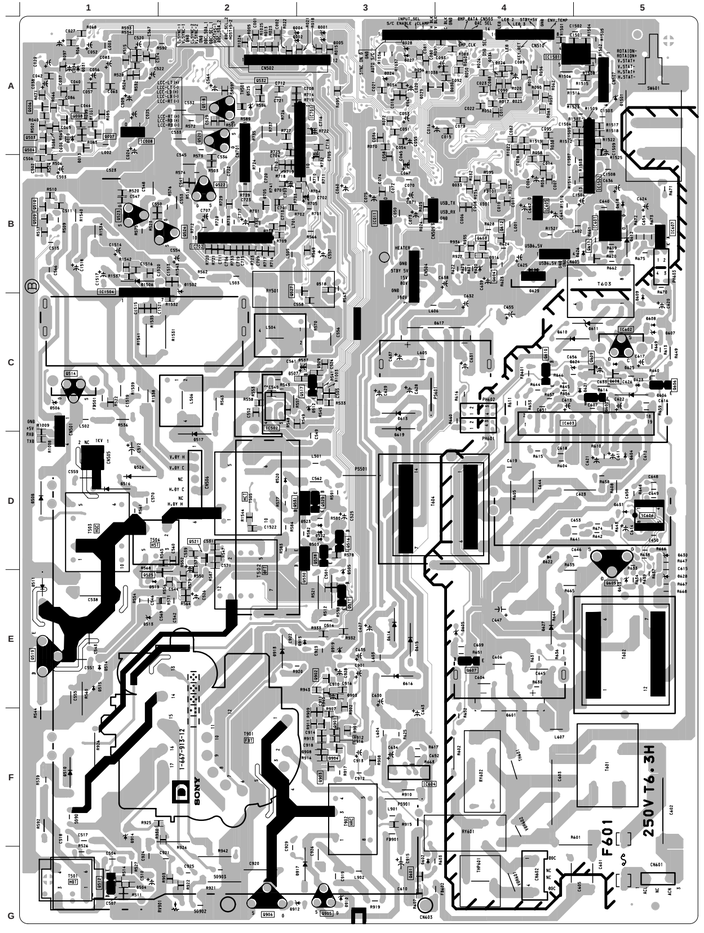
	(Conductor Side)	(Component Side)
X001	B–4	B–2

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-4)

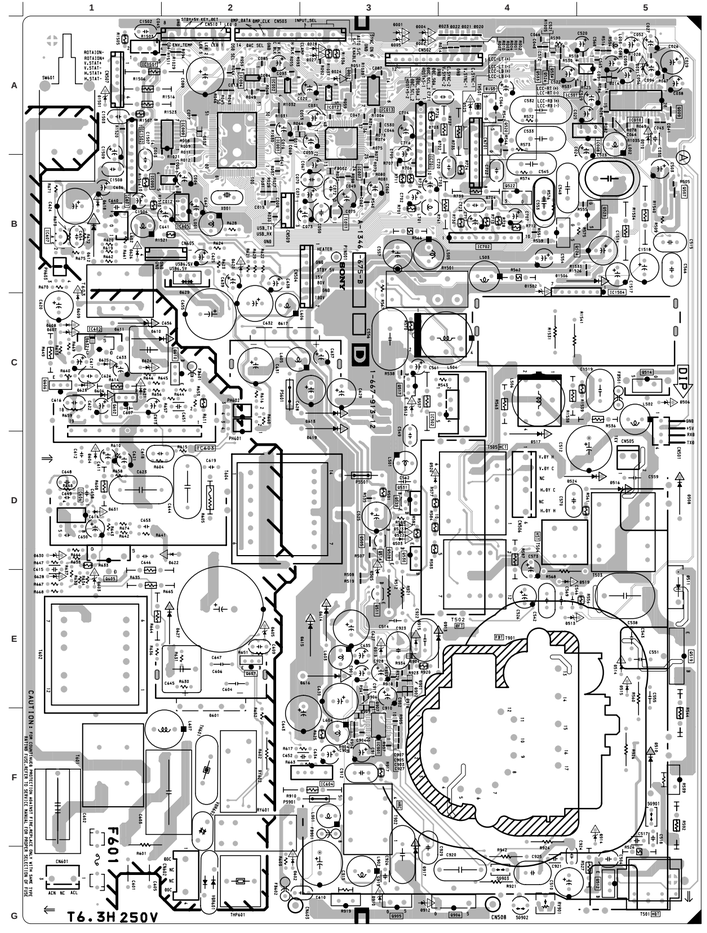
D POWER SUPPLY, U-COM, DEFLECTION

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

— D BOARD (Conductor Side) —

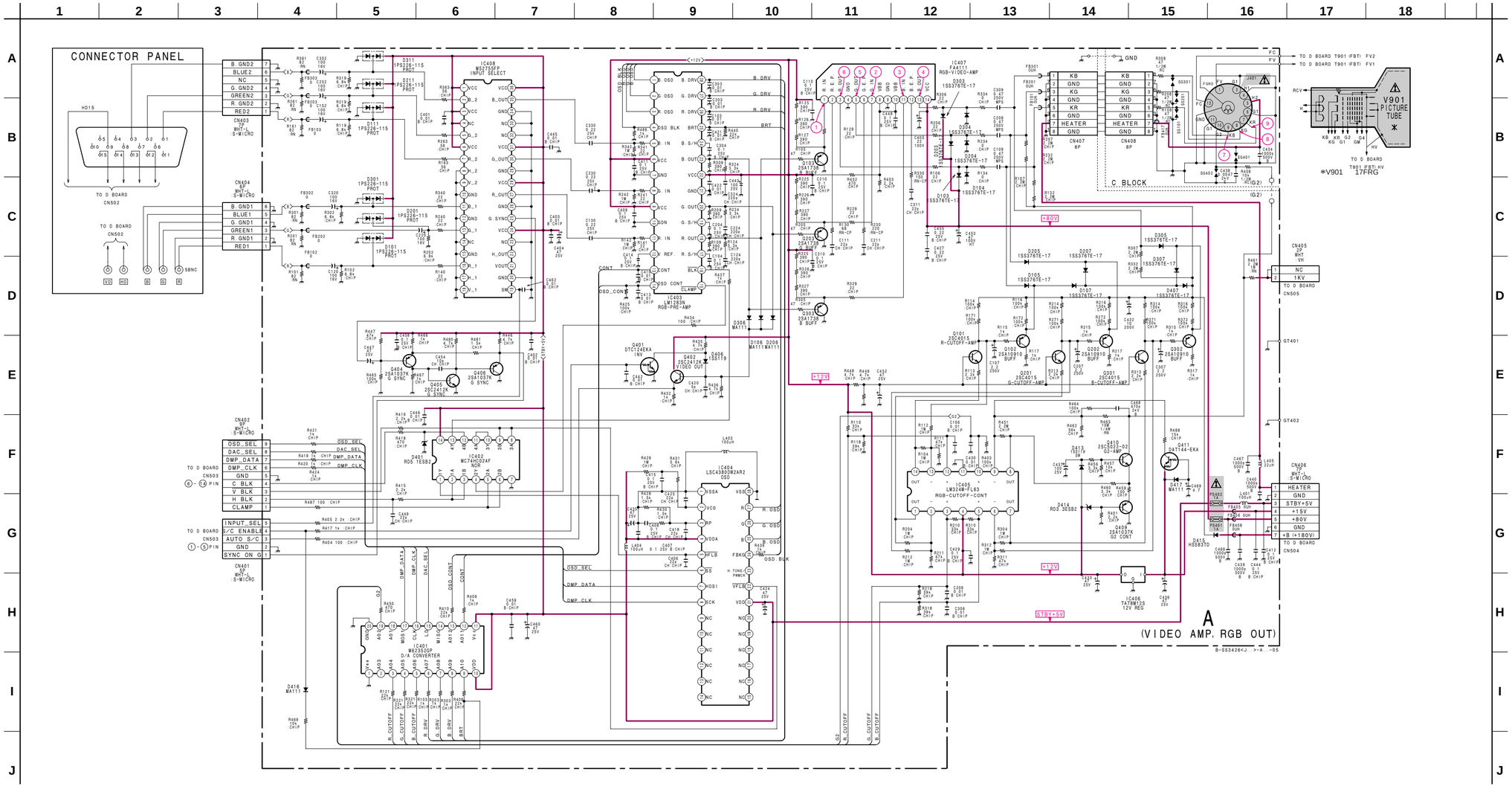


— D BOARD (Component Side) —



Schematic diagram
← D (2/2) board

Schematic diagram
A board →



• A BOARD WAVEFORMS

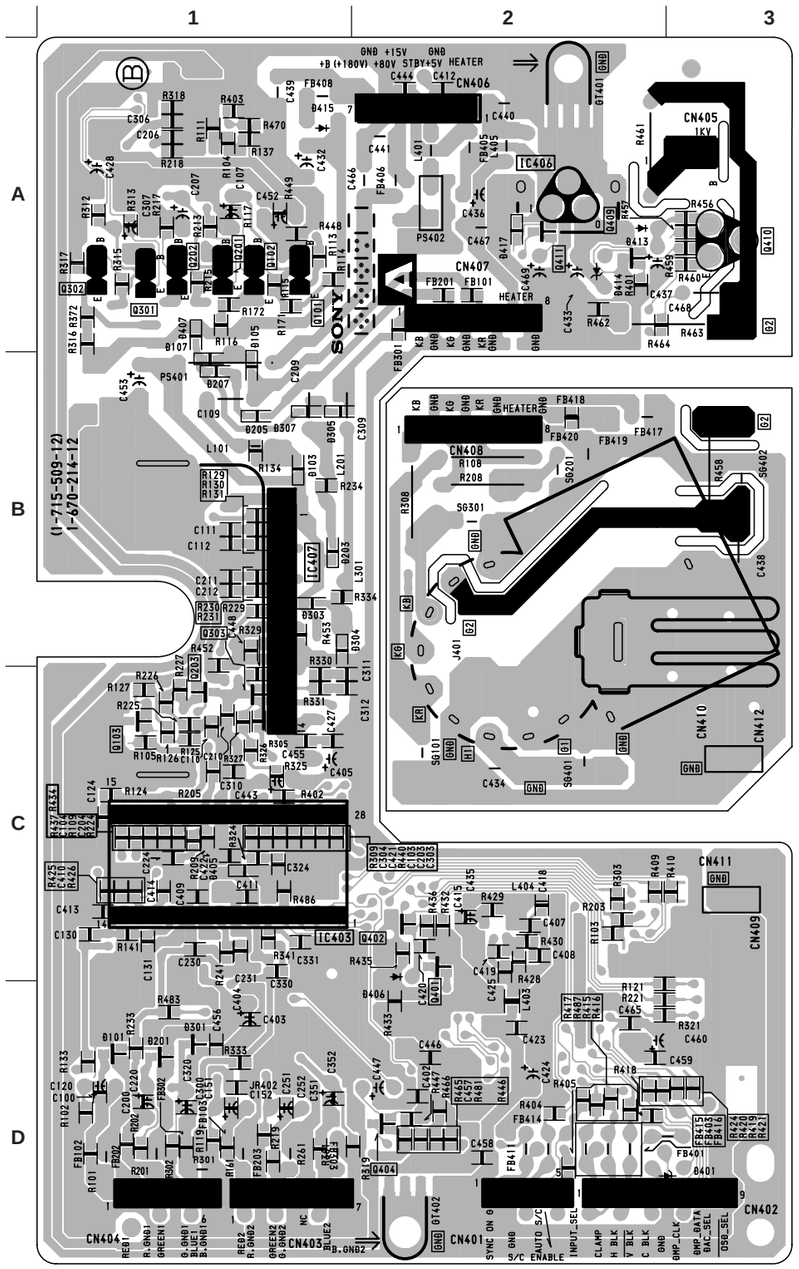
① 4.0 Vp-p (H)	② 50.0 Vp-p (H)	③ 4.0 Vp-p (H)
④ 50.0 Vp-p (H)	⑤ 4.0 Vp-p (H)	⑥ 50.0 Vp-p (H)
⑦ 50.0 Vp-p (H)	⑧ 50.0 Vp-p (H)	⑨ 50.0 Vp-p (H)

• A BOARD VOLTAGE LIST

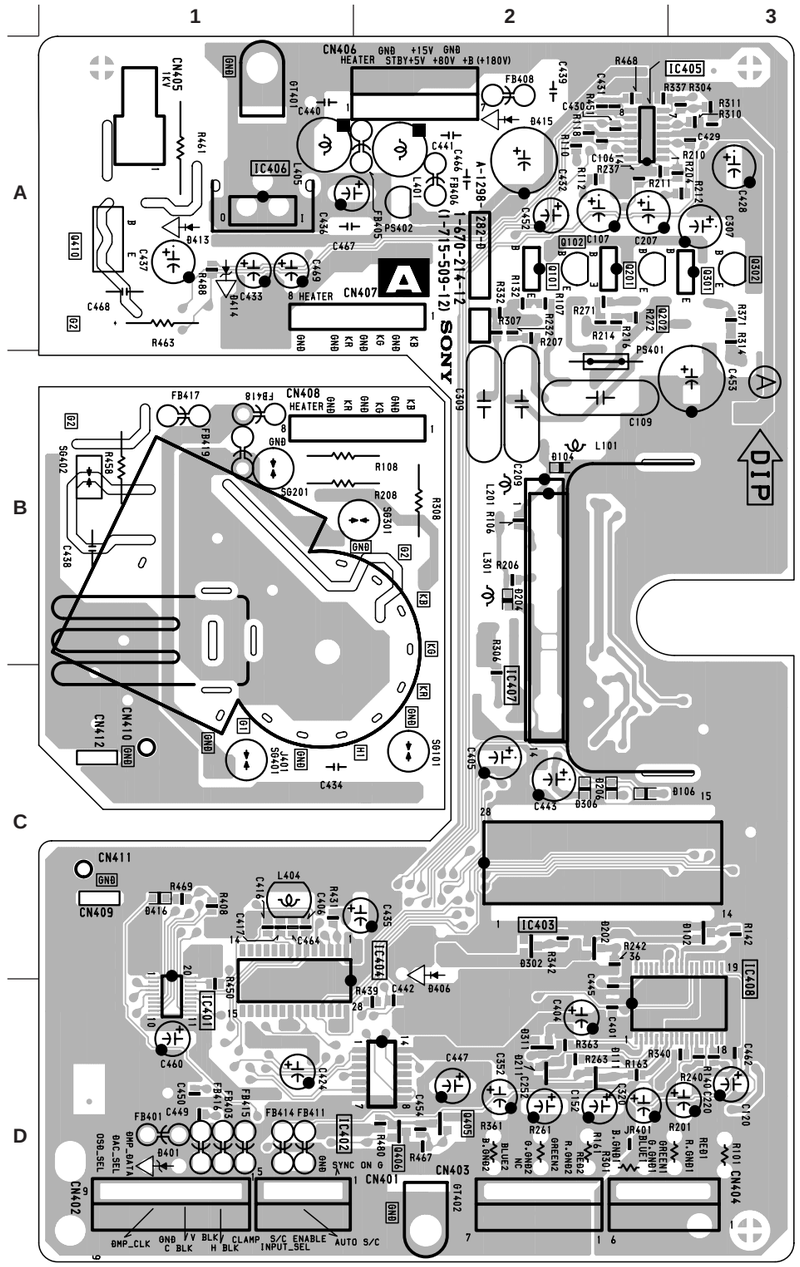
Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC403	1	1.6		C	91.7
	2	1.6		E	5.2
	3	1.6	Q202	B	91.7
	4	0		C	0.6
	5	2.2		E	92.3
	8	2.2	Q203	B	1.9
	11	2.2		E	2.6
	12	2	Q301	B	5.8
	13	1.7		C	92.1
	14	1.5		E	5.2
	15	4.8	Q302	B	92.1
	16	4		C	0.6
	17	6.7		E	92.7
	18	2.2	Q303	B	1.9
	19	6.8		E	2.6
	20	2.1	Q401	B	0
	23	2.1		C	6.1
	24	6.8	Q402	B	5.5
	25	1.5		E	4.8
	26	3.4	Q404	B	3.5
	27	3.5		C	0.6
	28	3.4		E	4.1
IC407	1	2.8	Q405	B	0.6
	2	2.0		C	3.3
	3	50.8	Q406	B	3.3
	5	50.8		E	3.6
	6	1.9	Q409	B	8.3
	7	2.8		E	7.8
	8	9.8	Q410	B	8.3
	10	9.8		C	463
	11	2.8		E	7.8
	12	1.9	J401	KB	70
	13	50.8		KG	70
Q101	B	5.8		KR	70
	C	93.3		G2	462
	E	5.2		H2	6.2
Q103	B	1.9			
	C	2.6			
Q102	B	93.3			
	C	0.6			
	E	94			
Q201	B	5.8			

A VIDEO AMP RGB OUT

— A BOARD (Conductor Side) —



— A BOARD (Component Side) —



- **A BOARD SEMICONDUCTOR LOCATION**

IC	(Conductor Side)	(Component Side)
IC401		D–1
IC402		D–2
IC403	C–1	C–2
IC404		C–1
IC405		A–2
IC406	A–2	A–1
IC407	B–1	B–2
IC408		D–3

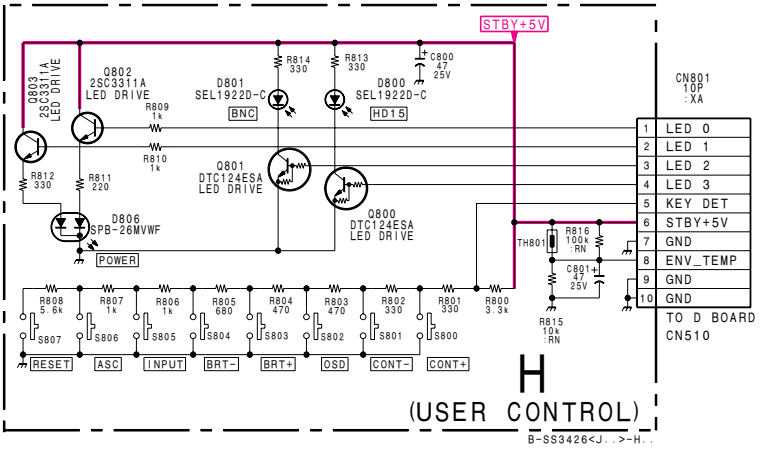
TRANSISTOR	(Conductor Side)	(Component Side)	*
Q101	A–1	A–2	–
Q102	A–1	A–2	–
Q103	C–1		①
Q201	A–1	A–2	–
Q202	A–1	A–2	–
Q203	C–1		①
Q301	A–1	A–3	–
Q302	A–1	A–3	–
Q303	C–1		①
Q401	C–2		①
Q402	C–2		①
Q404	D–2		①
Q405		D–2	②
Q406		D–2	②
Q409	A–2		①
Q410	A–3		–

DIODE	(Conductor Side)	(Component Side)	*
D101	D–1		⑥
D103	B–1		③
D104		B–2	③
D105	B–1		③
D106		C–2	④
D107	B–1		③
D111		D–2	⑦
D201	D–1		⑥
D203	B–1		③
D204		B–2	③
D205	B–1		③
D206		C–2	③
D207	B–1		③
D211		D–2	⑦
D301	D–1		⑥
D303	B–1		③
D304	B–1		③
D305	B–1		③
D306		C–2	③
D307	B–1		④
D311		D–2	⑦
D401	D–3	D–1	–
D406	C–2	C–2	–
D407	A–1		③
D413	A–2	A–1	–
D414	A–2	A–1	–
D415	A–1	A–2	–
D416		C–1	③

∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-4)

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

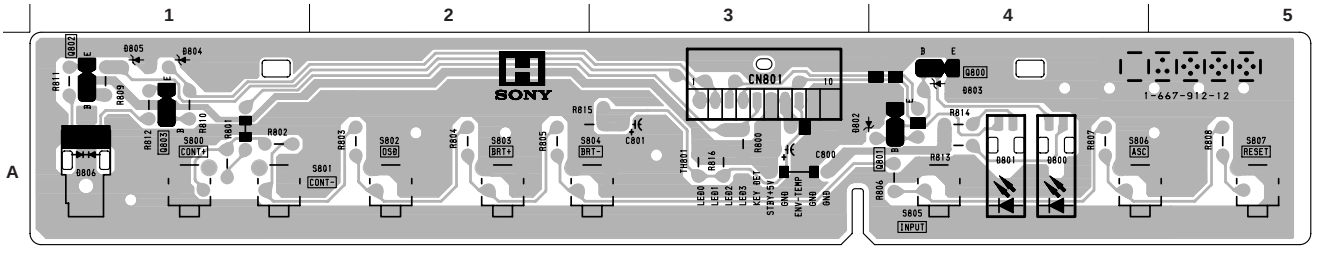
(4) Schematic Diagram of H Board



- **H BOARD VOLTAGE LIST**

Ref.	Pin No.	Voltage [V]
Q800	B	5.1
	C	0.1
Q801	B	0
	C	4.0
Q802	B	5.1
	E	4.4
Q803	B	0
	E	0.4

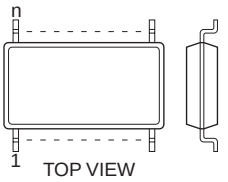
— H BOARD —



Schematic diagram
H board

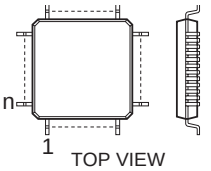
5-4. SEMICONDUCTORS

BA9756FS-E2
M62352GP-75E
M62352GP-75ED



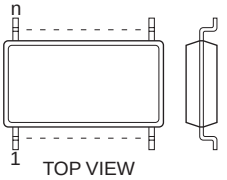
20 pin SOP

CXA2043Q



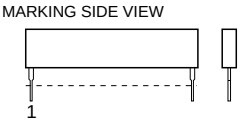
48 pin QFP

CXA2044M
LSC4380DW2AR2



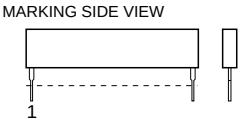
28 pin SOP

DM-57N



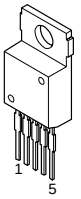
5 pin SIP

FA4111

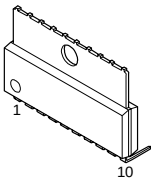


14 pin SIP

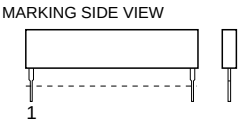
LA6500-FA



LA6510

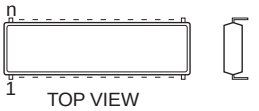


LA7841L



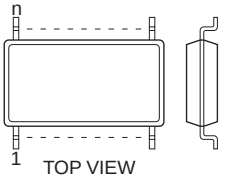
7 pin SIP

LM1283N



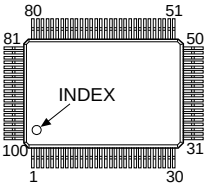
28 pin DIP

LM324M
MC74HCT14AFEL
MC74HC02AF
SN74HC02ANS
SN74HCT04ANS

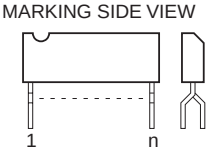


14 pin SOP

MB90553PF-G-120-BND

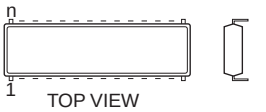


MCR5102



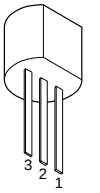
19 pin ZIP

MC33262P
MM1170BFB

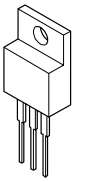


8 pin DIP

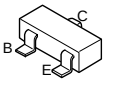
NJM78L09A
TA78L09S



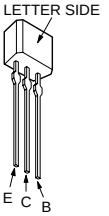
NJM78M09FA
TA78M12S



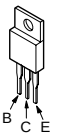
DTA114GKAT146
DTA124EKA-T146
DTA143ESA
DTC114GKA
DTC114GKAT146
DTC124EK
DTC124EKA-T146
2SA1036K-Q
2SA1036K-T-146-Q
2SA1037K-T-146-QR
2SA1738-TX
2SC1623-L5L6
2SC2412K-T-146-QR



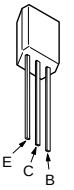
DTC114ESA
DTC124ESA
2SC2784
2SC2785-HFE
2SC3311A-QRSTA
2SC3311A-RTA



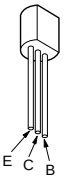
IRFI9630GS
2SC5022-02
2SJ449 (1)



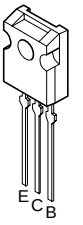
2SA1049-GR
2SC2459-GR



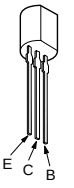
2SA1091-O
2SC2362K-G
2SC3941A-Q (TA)



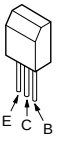
2SA1358-Y
2SC3421-Y



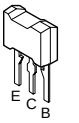
2SC2362KG-AA



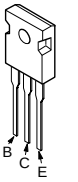
2SC3209LK



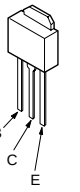
2SC4015TV2



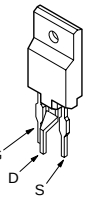
2SC5301-CC



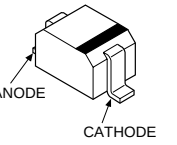
2SDS1802-S



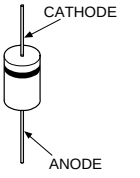
2SK2195F04



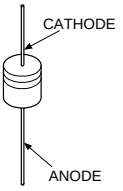
DTZ33B
DTZ5.1B
MA111-TX
RD12SB2
UDZ-TE-17-12B
UDZ-TE-17-33B
UDZ-TE-17-4.7B
UDZ-TE-17-5.1B



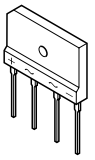
D1NL20U-TR
D2S4MF
D2S4MTA1



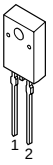
D1NS4
EGP10GPKG23
RD11ES-B1
RD12ES-B2
RD13ES-B2
RD16ES-B2
RD16ES-B3
RD22ES-B2
RD24ES-B2
RD24ES-B3
RD3.3ES-B2
RD5.1ES-B2
RD6.2ES-B2
RD6.8ES-B1
RD6.8ES-B3
1SS119-25TD
1SS119-25



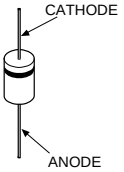
D2L40-TA
D4SBS4
D4SBS4-F
D4SB60L



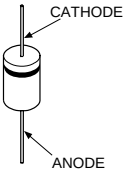
D5L60



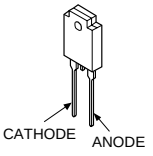
EGP10D
ERA91-02
S2L20UF



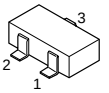
ERA22-06AVRBT
ERA22-08
GP08D
GP08DPKG23
HSS83TD
RGP02-17EL-6433
RGP02-17PKG23
S2L40F
UF4005PKG23



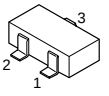
FMQ-G5FMS



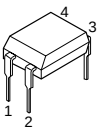
MA151WK
1SS184



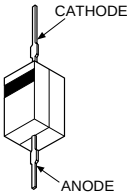
MA153-TX
1SS226
1PS226-115



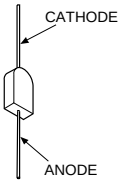
PC123F2
PC123FY2



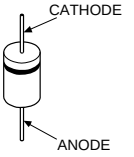
P6KE200AG23
SB340L-6489



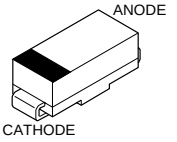
RM11A
RM11C



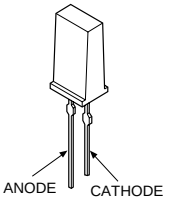
SB340



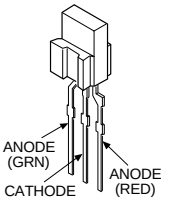
1SS376TE-17



SEL1922D-C



SPB-26MVWF



SECTION 6
EXPLODED VIEWS

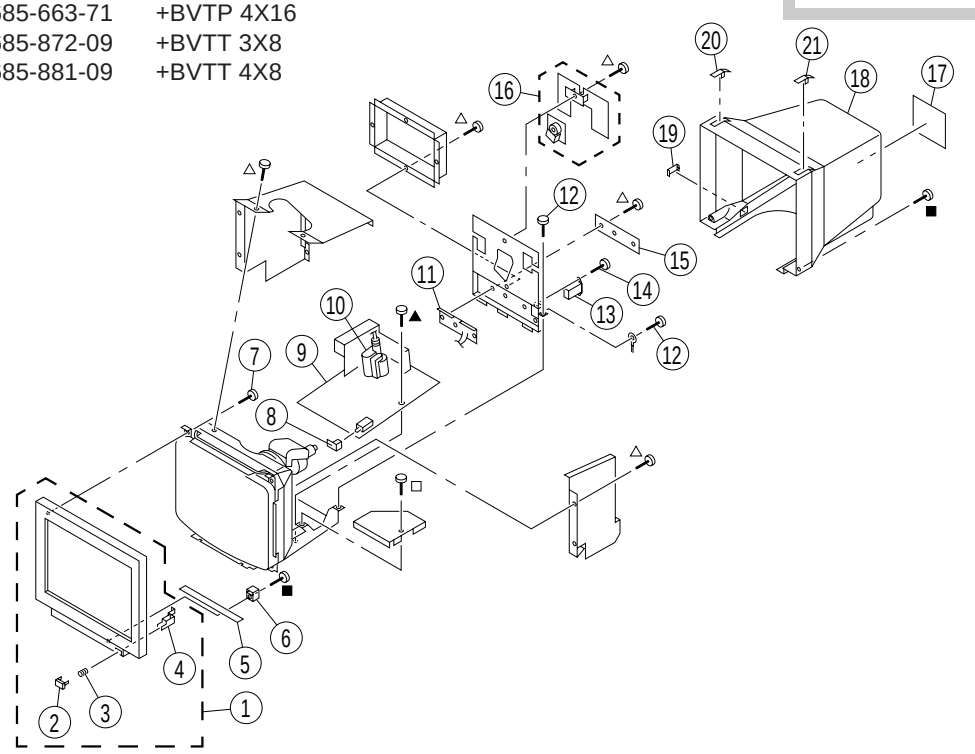
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS

▲ 7-685-646-79 +BVTP 3X8
■ 7-685-663-71 +BVTP 4X16
△ 7-685-872-09 +BVTT 3X8
□ 7-685-881-09 +BVTT 4X8



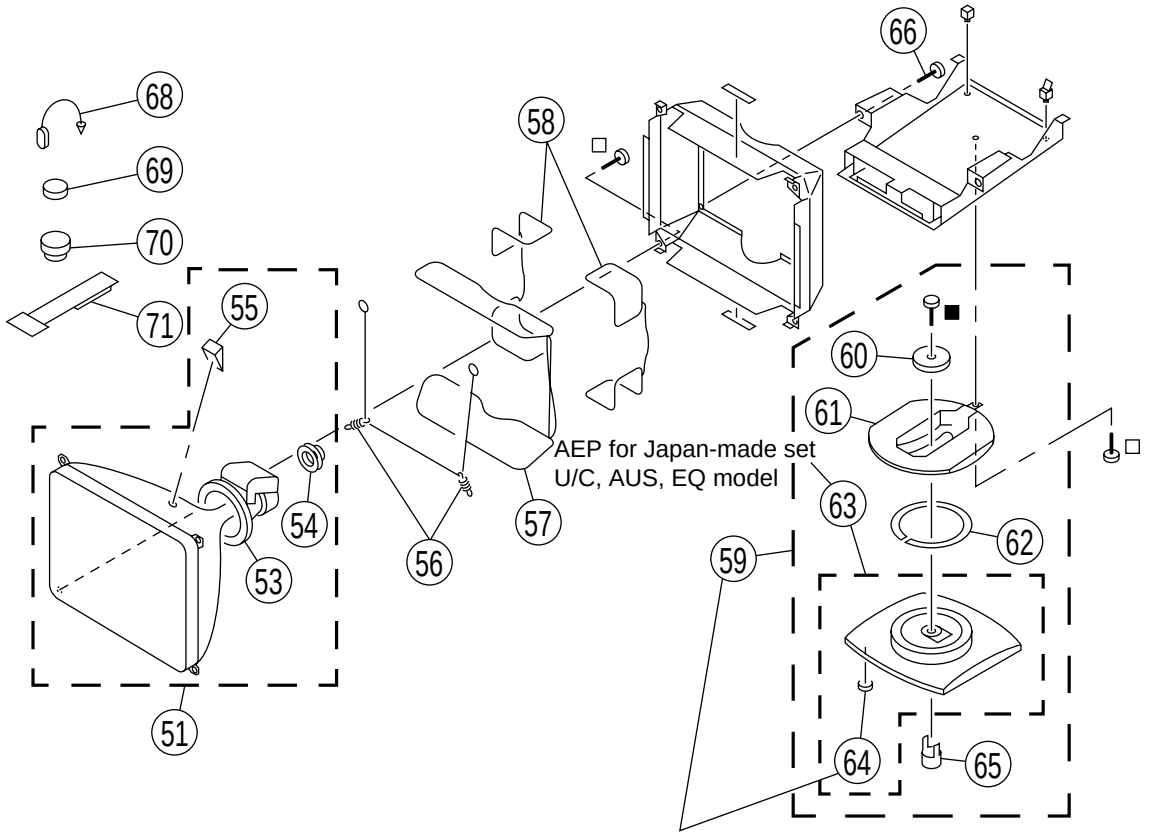
REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4035-321-1	BEZEL ASSY [U/C for Japan-made set, AUS, EQ model]	2-4
1	X-4035-364-1	BEZEL ASSY [AEP for UK-made set, UK model]	2-4
1	X-4035-365-1	BEZEL ASSY [U/C for USA-made set]	2-4
1	X-4035-380-1	BEZEL ASSY [AEP for Japan-made set]	2-4
2	4-062-203-01	BUTTON, POWER [U/C for Japan-made set, AUS, EQ model]	
2	4-062-203-11	BUTTON, POWER [AEP for Japan-made set]	
2	4-063-242-01	BUTTON, POWER [AEP for UK-made set, UK model]	
2	4-063-252-01	BUTTON, POWER [U/C for USA-made set]	
3	3-653-339-01	SPRING, COMPRESSION [AEP/U/C for Japan-made set, AUS, EQ model]	
3	3-653-339-11	SPRING, COMPRESSION [AEP for UK-made set, UK model]	
3	3-653-339-21	SPRING, COMPRESSION [U/C for USA-made set]	
4	4-062-199-01	BAR, EXTENSION [AEP/U/C for Japan-made set, AUS, EQ model]	
4	4-063-245-01	BAR, EXTENSION [AEP for UK-made set, UK model]	
4	4-063-255-01	BAR, EXTENSION [U/C for USA-made set]	
5	* 8-733-287-00	H BOARD, COMPLETE	
6	* 4-062-196-01	STOPPER, PRINTED CIRCUIT BOARD [AEP/U/C for Japan-made set, AUS, EQ model]	
6	* 4-063-247-01	STOPPER, PRINTED CIRCUIT BOARD [AEP for UK-model set, UK model]	
6	* 4-063-257-01	STOPPER, PRINTED CIRCUIT BOARD [U/C for USA-made set]	
7	4-203-648-01	SCREW (5), SELF TAPPING [AEP for UK-made set, UK model]	
7	4-365-808-01	SCREW (5), TAPPING [AEP for Japan-made set, U/C, AUS, EQ model]	
8	* 4-394-972-21	CAP, POWER	
9	* 8-933-284-00	D BOARD, COMPLETE	
10	⚠ X-4035-425-1	TRANSFORMER ASSY, FLYBACK (NX-4500//J1E4)	
11	1-694-347-12	TERMINAL BOARD ASSY, I/O	
12	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)	
13	⚠ 1-251-382-22	INLET, AC 3P (WITH NOISE FILTER)	
14	4-052-345-01	SCREW, (3X8) (+K), TAPPING	
15	4-060-368-12	SHEET, CONNECTOR	
16	* 8-933-285-00	A BOARD, COMPLETE	
17	* 4-063-123-01	LABEL, INFORMATION [U/C for USA-made set]	
17	* 4-063-124-01	LABEL, INFORMATION [AEP for UK-made set, UK model]	
17	* 4-063-358-01	LABEL, INFORMATION [AEP for Japan-made set]	
17	* 4-063-436-03	LABEL, INFORMATION [U/C for Japan-made set]	
17	* 4-064-700-01	LABEL, INFORMATION [AUS model]	
17	* 4-064-966-02	LABEL, INFORMATION [EQ model]	
17	* 4-204-869-01	LABEL, INFORMATION [400PST9]	
18	4-062-206-01	CABINET[U/C for Japan-made set, AUS, EQ model]	
18	4-062-206-11	CABINET [AEP for Japan-made set]	
18	4-063-241-01	CABINET [AEP for UK-made set, UK model]	
18	4-063-251-01	CABINET [U/C for USA-made set]	
19	4-062-195-01	COVER, ECS [U/C for Japan-made set, AUS, EQ model]	
19	4-062-195-21	COVER, ECS [AEP for Japan-made set]	
19	4-063-246-01	COVER, ECS [AEP for UK-made set, UK model]	
19	4-063-256-01	COVER, ECS [U/C for USA-made set]	
20	4-062-202-01	COVER (L), SCREW [U/C for Japan-made set, AUS, EQ model]	
20	4-062-202-21	COVER (L), SCREW [AEP for Japan-made set]	
20	4-063-248-01	COVER (L), SCREW [AEP for UK-made set, UK model]	
20	4-063-258-01	COVER (L), SCREW [U/C for USA-made set]	
21	4-062-201-01	COVER (R), SCREW [U/C for Japan-made set, AUS, EQ model]	
21	4-062-201-21	COVER (R), SCREW [AEP for Japan-made set]	
21	4-063-249-01	COVER (R), SCREW [AEP for UK-made set, UK model]	
21	4-063-259-01	COVER (R), SCREW [U/C for USA-made set]	

6-2. PICTURE TUBE

■ 7-685-663-71 +BVTP 4X16
□ 7-685-881-09 +BVTT 4X8

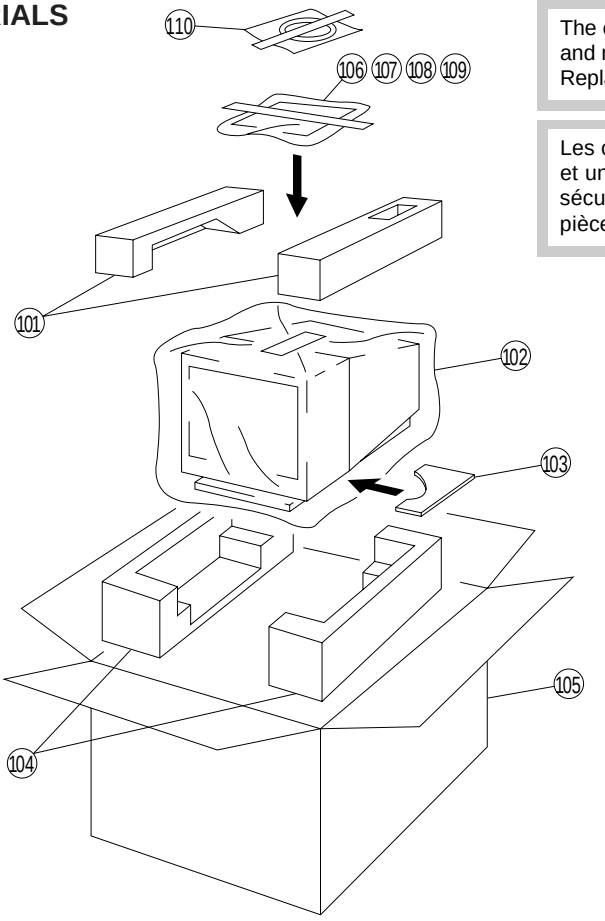
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
51	⚠8-736-400-82	ITC ASSY (19FRG-R1) [U/C, AEP, UK]	53-55
51	⚠8-736-403-81	ITC ASSY (19FRG-RS1) [AUS, EQ model]	53-55
53	⚠8-451-282-11	DEFLECTION YOKE (Y19FRJ-M)	
54	⚠1-452-932-11	NECK ASSEMBLY	
55	4-040-897-01	SPACER, DY [U/C for USA-made set]	
55	4-050-492-01	SPACER, DY [except U/C for USA-made set]	
56	*4-047-316-01	SPRING, EXTENSION [except U/C for USA-made set]	
56	*4-061-573-01	SPRING, TENSION [U/C for USA-made set]	
57	⚠1-416-529-11	COIL, DEMAGNETIC	
58	⚠1-416-140-12	COIL, LANDING CORRECTION	
59	X-4034-847-1	STAND ASSY [AEP/U/C for Japan-made set, AUS, EQ model]	60-65
59	X-4034-868-1	STAND ASSY [AEP for UK-made set, UK model]	60-65
60	4-060-340-01	STOPPER (A) [AEP/U/C for Japan-made set, AUS, EQ model]	
60	4-060-531-01	STOPPER, A [U/C for USA-made set]	
60	4-060-644-02	STOPPER (A) [AEP for UK-made set, UK model]	
61	4-060-396-11	SLIDER [AEP/U/C for Japan-made set, AUS, EQ model]	
61	4-060-522-01	SLIDER [AEP for UK-made set, UK model]	
61	4-060-698-01	SLIDER [U/C for USA-made set]	
62	4-060-339-01	RING, TILT SWIVEL [AEP/U/C for Japan-made set, AUS, EQ model]	
62	4-060-643-01	RING, TILT SWIVEL [AEP for UK-made set, UK model]	
62	4-060-705-01	RING, TILT SWIVEL [U/C for USA-made set]	
63	X-4034-851-1	BASE ASSY, STAND [AEP/U/C for Japan-made set, AUS, EQ model]	64
63	X-4034-890-1	BASE ASSY, STAND [U/C for USA-made set]	
64	4-047-474-01	FOOT, RUBBER [except U/C for USA-made set]	
65	4-041-621-01	STOPPER (B) [except U/C for USA-made set]	
65	4-041-621-21	STOPPER (B) [U/C for USA-made set]	
66	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)	
68	4-308-870-00	CLIP, LEAD WIRE	
69	1-452-032-00	MAGNET, DISC; 10mmϕ	
70	1-452-094-00	MAGNET, ROTATABLE DISK; 15mmϕ	
71	4-059-493-01	PERMALLOY (90), CONV. CORRECT	

6-3. PACKING MATERIALS



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
101	* 4-060-937-11	CUSHION (UPPER) (ASSY)	[AEP/U/C for Japan-made set, AUS, EQ model]
101	* 4-063-373-01	CUSHION (UPPER) (ASSY)	[U/C for USA-made set]
101	* 4-063-381-21	CUSHION (UPPER) (ASSY)	[AEP for UK-made set, UK model]
102	* 4-041-927-31	BAG, POLYETHYLENE	[AEP/U/C for Japan-made set, AUS, EQ model]
102	* 4-060-490-01	BAG, POLYETHYLENE	[AEP for UK-made set, UK model]
102	* 4-041-927-11	BAG, POLYETHYLENE	[U/C for USA-made set]
103	* 4-061-451-01	PAD, TILT FIXED	[AEP/U/C for Japan-made set, AUS, EQ model]
103	* 4-063-379-01	PAD, FOR TILT FIXING	[U/C for USA-made set]
103	* 4-063-387-01	PAD, FOR TILT FIXING	[AEP for UK-made set, UK model]
104	* 4-060-938-11	CUSHION (LOWER) (ASSY)	[AEP/U/C for Japan-made set, AUS, EQ model]
104	* 4-063-374-01	CUSHION (LOWER) (ASSY)	[U/C for USA-made set]
104	* 4-063-382-21	CUSHION (LOWER) (ASSY)	[AEP for UK-made set, UK model]
105	* 4-062-575-01	INDIVIDUAL CARTON	[U/C for Japan-made set, AUS, EQ, model]
105	* 4-062-576-11	INDIVIDUAL CARTON	[AEP for Japan-made set]
105	* 4-063-372-01	INDIVIDUAL CARTON	[U/C for USA-made set]
105	* 4-204-871-01	INDIVIDUAL CARTON [400PST9]	
105	* 4-063-380-01	INDIVIDUAL CARTON	[AEP for UK-made set, UK model]
106	⚠ 1-558-481-11	CORD, POWER (10A/250V)	[AUS model]
106	⚠ 1-765-718-11	CORD SET, POWER (10A/125V)	[U/C model]
106	⚠ 1-765-719-11	CORD SET, POWER (10A/250V)	[AEP for Japan-made set, EQ model]
106	⚠ 1-775-706-11	CORD SET, POWER (10A/250V)	[UK model]
106	⚠ 1-790-714-11	CORD SET, POWER (10A/250V)	[AEP for UK-made set]
107	3-861-575-11	MANUAL, INSTRUCTION	[U/C for Japan-made set, AUS, EQ model]
107	3-861-575-21	MANUAL, INSTRUCTION	[U/C for USA-made set]
107	3-861-576-11	MANUAL, INSTRUCTION	[AEP for Japan-made set]
107	3-861-576-31	MANUAL, INSTRUCTION	[AEP for UK-made set, UK model]
107	3-861-576-61	MANUAL, INSTRUCTION [400PST9]	
108	1-785-429-11	ADAPTOR, CONVERSION (for Mac)	
109	1-759-641-14	DISK, INFORMATION (WINDOWS)	[except U/C for USA-made set]
109	1-759-641-21	DISK, INFORMATION (V2.30) (WINDOWS, 3.5")	[U/C for USA-made set]
110	1-777-743-11	CABLE ASSY (15P DSUB X 2 CONNECTOR)	[AEP for Japan-made set, U/C, AUS, EQ model]
110	1-790-212-11	CABLE ASSY	[AEP for UK-made set, UK model]

SECTION 7
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*8-933-285-00	A BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+) (IC406, IC407)			
	<CAPACITOR>				
C103	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C104	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C106	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C107	1-107-649-11	ELECT	2.2µF	20%	250V
C109	1-117-450-11	FILM	0.47µF	10%	250V
C110	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C111	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C120	1-126-933-11	ELECT	100µF	20%	16V
C124	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C130	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C152	1-126-933-11	ELECT	100µF	20%	16V
C203	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C204	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C206	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C207	1-107-649-11	ELECT	2.2µF	20%	250V
C209	1-117-450-11	FILM	0.47µF	10%	250V
C210	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C211	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C220	1-126-933-11	ELECT	100µF	20%	16V
C224	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C230	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C252	1-126-933-11	ELECT	100µF	20%	16V
C303	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C304	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C306	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C307	1-107-649-11	ELECT	2.2µF	20%	250V
C309	1-117-450-11	FILM	0.47µF	10%	250V
C310	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C311	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C320	1-126-933-11	ELECT	100µF	20%	16V
C324	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C330	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C352	1-126-933-11	ELECT	100µF	20%	16V
C401	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C402	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C403	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C404	1-104-664-11	ELECT	47µF	20%	25V
C405	1-128-560-11	ELECT	22µF	20%	100V
C406	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C407	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C408	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C409	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C410	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C411	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C412	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C413	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C414	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C415	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C418	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C420	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V
C421	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C422	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C424	1-104-664-11	ELECT	47µF	20%	25V
C425	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C427	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C429	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C430	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C432	1-107-652-11	ELECT	10µF	20%	200V
C433	1-104-664-11	ELECT	47µF	20%	25V
C434	1-162-318-11	CERAMIC	0.001µF	10%	500V
C435	1-104-664-11	ELECT	47µF	20%	25V
C436	1-104-664-11	ELECT	47µF	20%	25V
C437	1-104-665-11	ELECT	100µF	20%	25V
C438	1-162-114-00	CERAMIC	0.0047µF		2KV
C439	1-162-318-11	CERAMIC	0.001µF	10%	500V
C440	1-162-318-11	CERAMIC	0.001µF	10%	500V
C442	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C443	1-128-526-11	ELECT	100µF	20%	25V
C444	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C445	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C446	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C447	1-104-664-11	ELECT	47µF	20%	25V
C448	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C449	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C452	1-104-664-11	ELECT	47µF	20%	25V
C453	1-128-562-11	ELECT	47µF	20%	100V
C454	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V
C455	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C458	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V

A

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
C459	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C460	1-104-664-11	ELECT 47µF 20% 25V	
C462	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
C466	1-162-318-11	CERAMIC 0.001µF 10% 500V	
C467	1-162-318-11	CERAMIC 0.001µF 10% 500V	
C468	1-162-134-11	CERAMIC 470pF 10% 2KV	
C469	1-126-963-11	ELECT 4.7µF 20% 50V	
		<CONNECTOR>	
CN401*	1-564-520-11	PLUG, CONNECTOR 5P	
CN402*	1-564-524-11	PLUG, CONNECTOR 9P	
CN403*	1-564-522-11	PLUG, CONNECTOR 7P	
CN404*	1-564-521-11	PLUG, CONNECTOR 6P	
CN405*	1-766-179-11	PIN, CONNECTOR (PC BOARD) 2P	
CN406*	1-564-522-11	PLUG, CONNECTOR 7P	
CN412	1-695-915-11	TAB (CONTACT)	
		<DIODE>	
D101	8-719-062-51	DIODE 1PS226-115	
D103	8-719-052-12	DIODE 1SS376TE-17	
D104	8-719-052-12	DIODE 1SS376TE-17	
D105	8-719-052-12	DIODE 1SS376TE-17	
D106	8-719-404-50	DIODE MA111-TX	
D107	8-719-052-12	DIODE 1SS376TE-17	
D111	8-719-062-51	DIODE 1PS226-115	
D201	8-719-062-51	DIODE 1PS226-115	
D203	8-719-052-12	DIODE 1SS376TE-17	
D204	8-719-052-12	DIODE 1SS376TE-17	
D205	8-719-052-12	DIODE 1SS376TE-17	
D206	8-719-404-50	DIODE MA111-TX	
D207	8-719-052-12	DIODE 1SS376TE-17	
D211	8-719-062-51	DIODE 1PS226-115	
D301	8-719-062-51	DIODE 1PS226-115	
D303	8-719-052-12	DIODE 1SS376TE-17	
D304	8-719-052-12	DIODE 1SS376TE-17	
D305	8-719-052-12	DIODE 1SS376TE-17	
D306	8-719-404-50	DIODE MA111-TX	
D307	8-719-052-12	DIODE 1SS376TE-17	
D311	8-719-062-51	DIODE 1PS226-115	
D401	8-719-109-85	ZENER DIODE RD5.1ESB2	
D406	8-719-911-19	DIODE 1SS119-25	
D407	8-719-052-12	DIODE 1SS376TE-17	
D413	8-719-911-19	DIODE 1SS119-25	
D414	8-719-109-66	ZENER DIODE RD3.3ESB2	
D415	8-719-051-85	DIODE HSS83TD	
D416	8-719-404-50	DIODE MA111-TX	
D417	8-719-404-50	DIODE MA111-TX	
		<FERRITE BEAD>	
FB101	1-500-419-21	FERRITE	
FB102	1-216-295-00	SHORT 0	
FB103	1-216-295-00	SHORT 0	
FB201	1-500-419-21	FERRITE	
FB202	1-216-295-00	SHORT 0	
FB203	1-216-295-00	SHORT 0	
FB301	1-500-419-21	FERRITE	
FB302	1-216-295-00	SHORT 0	
FB303	1-216-295-00	SHORT 0	
FB405	1-412-911-31	FERRITE 1.1µH	
FB406	1-412-911-31	FERRITE 1.1µH	
FB408	1-412-911-31	FERRITE 1.1µH	
FB417	1-412-911-31	FERRITE 1.1µH	
FB420	1-216-295-00	SHORT 0	
		<TERMINAL>	
GT401*	1-537-738-21	TERMINAL, EARTH	
GT402*	1-537-738-21	TERMINAL, EARTH	
		<IC>	
IC401	8-759-635-27	IC M62352GP-75E	
IC402	8-759-925-72	IC SN74HC02ANS	
IC403	8-759-445-85	IC LM1283N	
IC404	8-759-566-26	IC LSC4380DW2AR2	
IC405	8-759-502-82	IC LM324M	
IC406	8-759-263-43	IC TA78M12S	
IC407	8-749-013-74	IC FA4111	
IC408	8-759-522-86	IC M52755FP-TP	
		<SOCKET>	
J401 ⚠	1-251-598-11	SOCKET, PICTURE TUBE	
		<CHIP CONDUCTOR>	
JR401	1-216-295-00	SHORT 0	
		<COIL>	
L401	1-412-537-31	INDUCTOR 100µH	
L403	1-412-963-11	INDUCTOR 100µH	
L404	1-414-189-31	INDUCTOR 100µH	
L405	1-412-529-11	INDUCTOR 22µH	
		<IC LINK>	
PS401⚠	1-533-590-31	LINK IC (1A/90V AC, 60V DC)	
PS402⚠	1-532-637-91	LINK, IC (1A/150V)	
		<TRANSISTOR>	
Q101	8-729-041-66	TRANSISTOR 2SC4015TV2	
Q102	8-729-200-17	TRANSISTOR 2SA1091-O	
Q103	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q201	8-729-041-66	TRANSISTOR 2SC4015TV2	
Q202	8-729-200-17	TRANSISTOR 2SA1091-O	
Q203	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q301	8-729-041-66	TRANSISTOR 2SC4015TV2	
Q302	8-729-200-17	TRANSISTOR 2SA1091-O	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
Q303	8-729-112-65	TRANSISTOR 2SA1462-Y33			
Q401	8-729-901-00	TRANSISTOR DTC124EK			
Q402	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q404	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR			
Q405	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q406	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR			
Q409	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR			
Q410	8-729-032-61	TRANSISTOR 2SC5022-02			
Q411	8-729-027-38	TRANSISTOR DTA144EKA-T146			
	<RESISTOR>				
R101	1-215-395-00	METAL	82	1%	1/4W
R103	1-216-049-91	RES, CHIP	1K	5%	1/10W
R104	1-216-121-91	RES, CHIP	1M	5%	1/10W
R105	1-216-017-91	RES, CHIP	47	5%	1/10W
R106	1-216-009-00	RES, CHIP	22	5%	1/10W
R107	1-216-129-00	RES, CHIP	2.2M	5%	1/10W
R108	1-219-742-11	CARBON	47	5%	1/2W
R109	1-216-039-00	RES, CHIP	390	5%	1/10W
R110	1-216-085-00	RES, CHIP	33K	5%	1/10W
R111	1-216-089-91	RES, CHIP	47K	5%	1/10W
R112	1-216-121-91	RES, CHIP	1M	5%	1/10W
R113	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R114	1-216-097-91	RES, CHIP	100K	5%	1/10W
R115	1-216-049-91	RES, CHIP	1K	5%	1/10W
R116	1-216-097-91	RES, CHIP	100K	5%	1/10W
R117	1-216-049-91	RES, CHIP	1K	5%	1/10W
R118	1-216-689-11	RES, CHIP	39K	5%	1/10W
R121	1-216-081-00	RES, CHIP	22K	5%	1/10W
R124	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R125	1-216-039-00	RES, CHIP	390	5%	1/10W
R126	1-216-039-00	RES, CHIP	390	5%	1/10W
R127	1-216-039-00	RES, CHIP	390	5%	1/10W
R129	1-216-009-00	RES, CHIP	22	5%	1/10W
R130	1-216-623-11	METAL CHIP	68	0.50%	1/10W
R132	1-216-129-00	RES, CHIP	2.2M	5%	1/10W
R134	1-216-295-00	SHORT	0		
R140	1-216-009-91	RES, CHIP	22	5%	1/10W
R141	1-216-009-91	RES, CHIP	22	5%	1/10W
R142	1-216-121-91	RES, CHIP	1M	5%	1/10W
R161	1-215-395-00	METAL	82	1%	1/4W
R163	1-216-009-91	RES, CHIP	22	5%	1/10W
R171	1-216-097-91	RES, CHIP	100K	5%	1/10W
R172	1-216-097-91	RES, CHIP	100K	5%	1/10W
R201	1-215-395-00	METAL	82	1%	1/4W
R203	1-216-049-91	RES, CHIP	1K	5%	1/10W
R204	1-216-121-91	RES, CHIP	1M	5%	1/10W
R205	1-216-017-91	RES, CHIP	47	5%	1/10W
R206	1-216-009-91	RES, CHIP	22	5%	1/10W
R207	1-216-129-00	RES, CHIP	2.2M	5%	1/10W
R208	1-219-742-11	CARBON	47	5%	1/2W
R209	1-216-039-00	RES, CHIP	390	5%	1/10W
R210	1-216-085-00	RES, CHIP	39K	5%	1/10W
R211	1-216-089-91	RES, CHIP	47K	5%	1/10W
R212	1-216-121-91	RES, CHIP	1M	5%	1/10W
R213	1-216-057-00	RES, CHIP	33K	5%	1/10W
R214	1-216-097-91	RES, CHIP	100K	5%	1/10W
R215	1-216-049-91	RES, CHIP	1K	5%	1/10W
R216	1-216-097-91	RES, CHIP	100K	5%	1/10W
R217	1-216-049-91	RES, CHIP	1K	5%	1/10W
R218	1-216-689-11	RES, CHIP	39K	5%	1/10W
R221	1-216-081-00	RES, CHIP	22K	5%	1/10W
R224	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R225	1-216-039-00	RES, CHIP	390	5%	1/10W
R226	1-216-039-00	RES, CHIP	390	5%	1/10W
R227	1-216-039-00	RES, CHIP	390	5%	1/10W
R229	1-216-009-91	RES, CHIP	22	5%	1/10W
R230	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R232	1-216-129-00	RES, CHIP	2.2M	5%	1/10W
R234	1-216-295-00	SHORT	0		
R240	1-216-009-91	RES, CHIP	22	5%	1/10W
R241	1-216-009-91	RES, CHIP	22	5%	1/10W
R242	1-216-121-91	RES, CHIP	1M	5%	1/10W
R261	1-215-395-00	METAL	82	1%	1/4W
R263	1-216-009-91	RES, CHIP	22	5%	1/10W
R271	1-216-097-91	RES, CHIP	100K	5%	1/10W
R272	1-216-097-91	RES, CHIP	100K	5%	1/10W
R301	1-215-395-00	METAL	82	1%	1/4W
R303	1-216-049-91	RES, CHIP	1K	5%	1/10W
R304	1-216-121-91	RES, CHIP	1M	5%	1/10W
R305	1-216-017-91	RES, CHIP	47	5%	1/10W
R306	1-216-009-91	RES, CHIP	22	5%	1/10W
R307	1-216-129-00	RES, CHIP	2.2M	5%	1/10W
R308	1-219-742-11	CARBON	47	5%	1/2W
R309	1-216-039-00	RES, CHIP	390	5%	1/10W
R310	1-216-085-00	RES, CHIP	33K	5%	1/10W
R311	1-216-089-91	RES, CHIP	47K	5%	1/10W
R312	1-216-121-91	RES, CHIP	1M	5%	1/10W
R313	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R314	1-216-097-91	RES, CHIP	100K	5%	1/10W
R315	1-216-049-91	RES, CHIP	1K	5%	1/10W
R316	1-216-097-91	RES, CHIP	100K	5%	1/10W
R317	1-216-049-91	RES, CHIP	1K	5%	1/10W
R318	1-216-689-11	RES, CHIP	39K	5%	1/10W
R321	1-216-081-00	RES, CHIP	22K	5%	1/10W
R324	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R325	1-216-039-00	RES, CHIP	390	5%	1/10W
R326	1-216-039-00	RES, CHIP	390	5%	1/10W
R327	1-216-039-00	RES, CHIP	390	5%	1/10W
R329	1-216-009-91	RES, CHIP	22	5%	1/10W
R330	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R332	1-216-129-00	RES, CHIP	2.2M	5%	1/10W
R334	1-216-295-00	SHORT	0		
R340	1-216-009-91	RES, CHIP	22	5%	1/10W
R341	1-216-009-91	RES, CHIP	22	5%	1/10W
R342	1-216-121-91	RES, CHIP	1M	5%	1/10W
R361	1-215-395-00	METAL	82	1%	1/4W
R363	1-216-009-91	RES, CHIP	22	5%	1/10W
R371	1-216-097-91	RES, CHIP	100K	5%	1/10W
R372	1-216-097-91	RES, CHIP	100K	5%	1/10W
R401	1-216-057-00	RES, CHIP	2.2K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R403	1-216-097-91	RES, CHIP	100K	5%	1/10W
R404	1-216-025-91	RES, CHIP	100	5%	1/10W
R405	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R408	1-216-081-00	RES, CHIP	22K	5%	1/10W
R409	1-216-049-91	RES, CHIP	1K	5%	1/10W
R410	1-216-081-00	RES, CHIP	22K	5%	1/10W
R415	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R416	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R417	1-216-049-91	RES, CHIP	1K	5%	1/10W
R418	1-216-041-00	RES, CHIP	470	5%	1/10W
R419	1-216-049-91	RES, CHIP	1K	5%	1/10W
R420	1-216-049-91	RES, CHIP	1K	5%	1/10W
R421	1-216-049-91	RES, CHIP	1K	5%	1/10W
R424	1-216-049-91	RES, CHIP	1K	5%	1/10W
R425	1-216-097-91	RES, CHIP	100K	5%	1/10W
R428	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R429	1-216-121-91	RES, CHIP	1M	5%	1/10W
R430	1-216-053-00	RES, CHIP	1.5K	5%	1/10W
R431	1-216-067-00	RES, CHIP	5.6K	5%	1/10W
R432	1-216-049-91	RES, CHIP	1K	5%	1/10W
R434	1-216-025-91	RES, CHIP	100	5%	1/10W
R435	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R436	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R437	1-216-049-91	RES, CHIP	1K	5%	1/10W
R439	1-216-049-91	RES, CHIP	1K	5%	1/10W
R440	1-216-081-00	RES, CHIP	22K	5%	1/10W
R446	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R447	1-216-089-91	RES, CHIP	47K	5%	1/10W
R448	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R449	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R450	1-216-041-00	RES, CHIP	470	5%	1/10W
R451	1-216-129-00	RES, CHIP	2.2M	5%	1/10W
R452	1-216-041-00	RES, CHIP	470	5%	1/10W
R453	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R456	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R457	1-216-073-00	RES, CHIP	10K	5%	1/10W
R458	1-219-749-91	CARBON	10K	5%	1/2W
R459	1-216-025-91	RES, CHIP	100	5%	1/10W
R460	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R461	1-211-885-21	METAL	2.2M	5%	1W
R462	1-216-091-00	RES, CHIP	56K	5%	1/10W
R463	1-211-895-11	METAL	10M	10%	1/4W
R464	1-216-097-91	RES, CHIP	100K	5%	1/10W
R465	1-216-097-91	RES, CHIP	100K	5%	1/10W
R466	1-216-049-91	RES, CHIP	1K	5%	1/10W
R467	1-216-049-91	RES, CHIP	1K	5%	1/10W
R469	1-216-073-00	RES, CHIP	10K	5%	1/10W
R480	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R481	1-216-053-00	RES, CHIP	1.5K	5%	1/10W
R486	1-216-049-91	RES, CHIP	1K	5%	1/10W
R487	1-216-025-91	RES, CHIP	100	5%	1/10W
R488	1-216-077-00	RES, CHIP	15K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<SPARK GAP>	
SG101	1-517-499-21	GAP, SPARK	
SG201	1-517-499-21	GAP, SPARK	
SG301	1-517-499-21	GAP, SPARK	
SG401	1-517-499-21	GAP, SPARK	
SG402	1-519-422-11	GAP, SPARK	

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* 8-933-284-00 D BOARD, COMPLETE
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1-533-223-11 HOLDER, FUSE (F601)
2-371-561-00 BUSHING (P), INSULATING (IC502)
3-710-578-01 COVER, VOLUME, 6 MOLD (RV901)
4-060-842-01 SHEET, INSULATING (IC502)
4-060-844-01 SHEET, INSULATING (IC1504)

4-382-854-11 SCREW (M3X10), P, SW (+)
(IC HOLDER, IC502, IC603 IC1504, Q514, Q530, Q531, Q605, Q905, Q906, D511, D601, D617, D622, R539, R919)
7-685-646-79 SCREW +BVTP 3X8 TYPE2 IT-3

<CAPACITOR>

C001	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C002	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C003	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C004	1-104-664-11	ELECT	47µF	20%	25V
C005	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C006	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C007	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C008	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C009	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C010	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C011	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C012	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C013	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C014	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C015	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C016	1-104-664-11	ELECT	47µF	20%	25V
C017	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C021	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C022	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C023	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C024	1-104-664-11	ELECT	47µF	20%	25V
C025	1-104-664-11	ELECT	47µF	20%	25V
C026	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C027	1-126-961-11	ELECT	2.2µF	20%	50V
C029	1-126-935-11	ELECT	470µF	20%	16V
C030	1-137-372-11	FILM	0.022µF	5%	50V
C031	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C036	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C037	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V
C038	1-126-960-11	ELECT	1µF	20%	50V
C040	1-163-137-00	CERAMIC CHIP	680pF	5%	50V
C041	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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REF.NO.	PART NO.	DESCRIPTION				REMARK
C042	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C043	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C044	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C045	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V	
C046	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V	
C047	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V	
C048	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V	
C049	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V	
C050	1-137-194-81	FILM	0.47µF	5%	50V	
C051	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V	
C052	1-126-963-11	ELECT	4.7µF	20%	50V	
C053	1-126-960-11	ELECT	1µF	20%	50V	
C054	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C055	1-126-964-11	ELECT	10µF	20%	50V	
C056	1-126-964-11	ELECT	10µF	20%	50V	
C057	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C058	1-163-243-11	CERAMIC CHIP	47pF	5%	50V	
C059	1-163-257-11	CERAMIC CHIP	180pF	5%	50V	
C060	1-126-964-11	ELECT	10µF	20%	50V	
C061	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V	
C062	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V	
C063	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C064	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V	
C065	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C066	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V	
C067	1-126-964-11	ELECT	10µF	20%	50V	
C068	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	
C070	1-130-495-00	FILM	0.1µF	5%	50V	
C071	1-126-960-11	ELECT	1µF	20%	50V	
C072	1-130-495-00	FILM	0.1µF	5%	50V	
C073	1-126-964-11	ELECT	10µF	20%	50V	
C074	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C075	1-104-665-11	ELECT	100µF	20%	25V	
C077	1-163-231-11	CERAMIC CHIP	15pF	5%	50V	
C078	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C079	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C081	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C083	1-104-664-11	ELECT	47µF	20%	25V	
C084	1-163-243-11	CERAMIC CHIP	47pF	5%	50V	
C085	1-163-243-11	CERAMIC CHIP	47pF	5%	50V	
C086	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C087	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C088	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C089	1-117-722-11	ELECT	2200µF	20%	10V	
C090	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C091	1-163-259-91	CERAMIC CHIP	220pF	5%	50V	
C092	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C093	1-126-964-11	ELECT	10µF	20%	50V	
C094	1-104-664-11	ELECT	47µF	10%	25V	
C096	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C501	1-163-005-11	CERAMIC CHIP	470pF	10%	50V	
C502	1-163-259-91	CERAMIC CHIP	220pF	5%	50V	
C503	1-126-967-11	ELECT	47µF	20%	50V	
C504	1-137-194-81	FILM	0.47µF	5%	50V	
C505	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V	
C506	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C507	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V	
C509	1-104-664-11	ELECT	47µF	20%	25V	
C510	1-126-941-11	ELECT	470µF	20%	25V	
C511	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C512	1-110-641-51	ELECT	33µF	20%	200V	
C514	1-164-281-11	CERAMIC	0.001µF	2KV		
C515	1-106-383-00	MYLAR	0.047µF	10%	200V	
C517	1-137-368-11	FILM	0.0047µF	5%	50V	
C518	1-137-368-11	FILM	0.0047µF	5%	50V	
C520	1-104-664-11	ELECT	47µF	20%	25V	
C521	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V	
C522	1-126-963-11	ELECT	4.7µF	20%	50V	
C523	1-117-955-11	FILM	0.17µF	5%	400V	
C524	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V	
C525	1-128-562-11	ELECT	47µF	20%	100V	
C526	1-128-561-91	ELECT	33µF	20%	100V	
C529	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C530	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V	
C532	1-115-519-11	FILM	0.56µF	5%	250V	
C533	1-115-515-11	FILM	0.27µF	5%	250V	
C536	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C538	1-117-959-11	FILM	4700pF	3%	1.8KV	
C540	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V	
C541	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C542	1-117-948-91	FILM	1500pF	5%	630V	
C543	1-162-558-11	CERAMIC	100pF	10%	2KV	
C545	1-115-512-11	FILM	0.15µF	5%	250	
C546	1-107-597-11	CERAMIC	22pF	5%	500V	
C547	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C548	1-115-509-11	FILM	0.068µF	5%	250V	
C549	1-130-495-00	FILM	0.1µF	5%	50V	
C550	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C551	1-162-558-11	CERAMIC	100pF	10%	2KV	
C552	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C553	1-117-953-11	FILM	0.033µF	5%	400V	
C554	1-107-665-11	ELECT	0.47µF	20%	400V	
C555	1-162-134-11	CERAMIC	470pF	10%	2KV	
C556	1-115-522-11	FILM	1µF	5%	250V	
C557	1-107-683-11	ELECT	2.2µF	0	250V	
C558	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C559	1-164-281-11	CERAMIC	0.001µF		2KV	
C560	1-163-019-00	CERAMIC CHIP	0.0068µF	10%	50V	
C561	1-104-664-11	ELECT	47µF	20%	25V	
C562	1-164-281-11	CERAMIC	0.001µF		2KV	
C564	1-126-960-11	ELECT	1µF	20%	50V	
C565	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	
C566	1-106-383-00	MYLAR	0.047µF	10%	200V	
C567	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V	
C568	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V	
C569	1-107-597-11	CERAMIC	22pF	5%	500V	
C570	1-113-481-11	FILM	1000pF	5%	630V	
C571	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C572	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C573	1-104-665-11	ELECT	100µF	20%	25V	
C574	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V	
C601⚠	1-113-900-51	CERAMIC	470pF	10%	250V	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C602⚠	1-107-533-51	FILM	1µF	20%	250V
C603⚠	1-107-533-51	FILM	1µF	20%	250V
C604⚠	1-113-926-91	CERAMIC	0.0047µF		250V
C605⚠	1-113-900-51	CERAMIC	470pF	10%	250V
C606⚠	1-113-926-91	CERAMIC	0.0047µF		250V
C609	1-130-495-00	FILM	0.1µF	5%	50V
C610	1-130-495-00	FILM	0.1µF	5%	50V
C611	1-126-964-11	ELECT	10µF	20%	50V
C613	1-126-963-11	ELECT	4.7µF	20%	50V
C614	1-104-665-11	ELECT	100µF	20%	25V
C615	1-137-370-11	FILM	0.01µF	5%	50V
C616	1-130-495-00	FILM	0.1µF	5%	50V
C617	1-104-665-11	ELECT	100µF	20%	10V
C618	1-130-029-00	FILM	8200pF	2%	50V
C620	1-126-969-11	ELECT	220µF	20%	50V
C621	1-126-964-11	ELECT	10µF	20%	50V
C622	1-126-964-11	ELECT	10µF	20%	50V
C623	1-119-867-11	MYLAR	0.047µF	3%	1KV
C624	1-126-768-11	ELECT	2200µF	20%	16V
C625	1-126-795-11	ELECT	10µF	20%	25V
C626	1-130-495-00	FILM	0.1µF	5%	50V
C627	1-128-564-11	ELECT	220µF	20%	100V
C628	1-126-927-11	ELECT	2200µF	20%	10V
C629	1-126-927-11	ELECT	2200µF	20%	10V
C630	1-128-564-11	ELECT	220µF	20%	100V
C631	1-126-943-11	ELECT	2200µF	20%	25V
C632	1-126-943-11	ELECT	2200µF	20%	25V
C633	1-126-960-11	ELECT	1µF	20%	50V
C634	1-107-950-11	ELECT	3.3µF	20%	200V
C635	1-128-581-11	ELECT	4.7µF	20%	100V
C636	1-104-664-11	ELECT	47µF	20%	25V
C637	1-104-664-11	ELECT	47µF	20%	25V
C638	1-104-664-11	ELECT	47µF	20%	25V
C639	1-104-664-11	ELECT	47µF	20%	25V
C640	1-137-370-11	FILM	0.01µF	5%	50V
C641	1-107-888-11	ELECT	47µF	20%	25V
C642	1-107-888-11	ELECT	47µF	20%	25V
C643	1-128-564-11	ELECT	220µF	20%	100V
C644	1-119-867-11	MYLAR	0.047µF	3%	1KV
C645	1-137-479-11	FILM	1µF	10%	400V
C646	1-107-792-11	CERAMIC	100pF	5%	1KV
C647	1-113-707-11	ELECT(BLOCK)	220µF	20%	450V
C648	1-136-169-00	FILM	0.22µF	5%	50V
C650	1-102-074-00	CERAMIC	0.001µF	10%	50V
C651	1-137-370-11	FILM	0.01µF	5%	50V
C652	1-137-370-11	FILM	0.01µF	5%	50V
C653	1-101-821-00	CERAMIC	0.0022µF		500V
C658	1-102-121-00	CERAMIC	0.0022µF	10%	50V
C659	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C660	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C701	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C702	1-104-664-11	ELECT	47µF	20%	25V
C703	1-126-934-11	ELECT	220µF	20%	10V
C704	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C705	1-104-664-11	ELECT	47µF	20%	25V
C706	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C707	1-104-664-11	ELECT	47µF	20%	25V
C708	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C709	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C710	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C711	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C712	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C713	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C714	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C715	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C716	1-104-664-11	ELECT	47µF	20%	25V
C717	1-104-664-11	ELECT	47µF	20%	25V
C718	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C719	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C720	1-130-495-00	FILM	0.1µF	5%	50V
C721	1-130-495-00	FILM	0.1µF	5%	50V
C722	1-130-495-00	FILM	0.1µF	5%	50V
C723	1-130-495-00	FILM	0.1µF	5%	50V
C901	1-126-961-11	ELECT	2.2µF	20%	50V
C902	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C903	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C904	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C905	1-163-145-00	CERAMIC CHIP	0.0015µF	5%	50V
C906	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C907	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C910	1-126-934-11	ELECT	220µF	20%	16V
C911	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C912	1-106-383-00	MYLAR	0.047µF	10%	200V
C913	1-126-967-11	ELECT	47µF	20%	50V
C914	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
C915	1-110-641-51	ELECT	33µF	20%	200V
C916	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C917	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C918	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C919	1-137-368-11	FILM	0.0047µF	5%	50V
C920	1-117-626-11	FILM	2000pF	3%	1.2KV
C921	1-137-372-11	FILM	0.022µF	5%	50V
C922	1-106-228-00	MYLAR	0.22µF	10%	100V
C923	1-106-220-00	MYLAR	0.1µF	10%	100V
C924	1-106-355-12	MYLAR	0.0033µF	10%	200V
C925	1-106-220-00	MYLAR	0.1µF	10%	100V
C926	1-136-105-00	FILM	0.33µF	5%	200V
C927	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C928	1-104-665-11	ELECT	100µF	20%	25V
C929	1-106-383-00	MYLAR	0.047µF	10%	200V
C1501	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1502	1-130-495-00	FILM	0.1µF	5%	50V
C1503	1-130-495-00	FILM	0.1µF	5%	50V
C1504	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C1505	1-163-003-11	CERAMIC CHIP	330pF	10%	50V
C1506	1-104-664-11	ELECT	47µF	20%	25V
C1507	1-130-495-00	FILM	0.1µF	5%	50V
C1508	1-130-495-00	FILM	0.1µF	5%	50V
C1509	1-104-664-11	ELECT	47µF	20%	25V
C1513	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1514	1-107-914-11	ELECT	1000µF	20%	25V
C1515	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C1516	1-164-004-11	CERAMIC CHIP 0.1µF 10% 25V	
C1517	1-107-894-11	ELECT 220µF 20% 35V	
C1518	1-107-914-11	ELECT 1000µF 20% 25V	
C1519	1-106-228-00	MYLAR 0.22µF 10% 100V	
C1522	1-163-021-91	CERAMIC CHIP 0.01µF 10% 50V	
		<CONNECTOR>	
CN501*	1-508-879-11	BASE POST	
CN502*	1-564-515-11	PLUG, CONNECTOR 12P	
CN503	1-564-595-11	PLUG, CONNECTOR 14P	
CN504*	1-564-510-11	PLUG, CONNECTOR 7P	
CN505	1-764-101-11	PIN, CONNECTOR (PC BOARD) 2P	
CN506*	1-779-465-11	PIN, CONNECTOR (WITH PWB) 6P	
CN507*	1-564-509-11	PLUG, CONNECTOR 6P	
CN510*	1-564-511-11	PLUG, CONNECTOR 8P	
CN601	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
CN602*	1-784-222-11	PIN, CONNECTOR (WITH PWB)	
CN701*	1-564-511-11	PLUG, CONNECTOR 8P	
		<DIODE>	
D001	8-719-109-85	ZENER DIODE RD5.1ESB2	
D002	8-719-109-85	ZENER DIODE RD5.1ESB2	
D004	8-719-109-85	ZENER DIODE RD5.1ESB2	
D005	8-719-109-85	ZENER DIODE RD5.1ESB2	
D010	8-719-109-85	ZENER DIODE RD5.1ESB2	
D014	8-719-404-50	DIODE MA111-TX	
D017	8-719-404-50	DIODE MA111-TX	
D020	8-719-062-51	DIODE 1PS226-115	
D021	8-719-062-51	DIODE 1PS226-115	
D022	8-719-062-51	DIODE 1PS226-115	
D023	8-719-062-51	DIODE 1PS226-115	
D024	8-719-109-96	ZENER DIODE RD6.8ESB1	
D025	8-719-404-50	DIODE MA111-TX	
D026	8-719-404-50	DIODE MA111-TX	
D028	8-719-109-85	ZENER DIODE RD5.1ESB2	
D030	8-719-801-78	DIODE 1SS184	
D031	8-719-109-85	ZENER DIODE RD5.1ESB2	
D032	8-719-976-99	ZENER DIODE DTZ5.1B	
D033	8-719-976-99	ZENER DIODE DTZ5.1B	
D034	8-719-976-99	ZENER DIODE DTZ5.1B	
D503	8-719-911-19	DIODE 1SS119-25	
D504	8-719-404-50	DIODE MA111-TX	
D505	8-719-109-98	ZENER DIODE RD6.8ESB3	
D506	8-719-110-36	ZENER DIODE RD13ESB2	
D507	8-719-404-50	DIODE MA111-TX	
D508	8-719-052-86	DIODE D2L40-TA	
D509	8-719-404-50	DIODE MA111-TX	
D510	8-719-975-77	DIODE SB340	
D511	8-719-061-21	DIODE FMQ-G5FMS	
D512	8-719-109-85	ZENER DIODE RD5.1ESB2	
D513	8-719-109-85	ZENER DIODE RD5.1ESB2	
D514	8-719-911-19	DIODE 1SS119-25	
D515	8-719-911-19	DIODE 1SS119-25	
D516	8-719-028-72	DIODE RGP02-17EL-6433	
D517	8-719-951-30	DIODE ERA91-02	
D518	8-719-404-50	DIODE MA111-TX	
D519	8-719-911-19	DIODE 1SS119-25	
D520	8-719-948-45	DIODE ERA22-08	
D522	8-719-911-19	DIODE 1SS119-25	
D523	8-719-911-19	DIODE 1SS119-25	
D524	8-719-028-72	DIODE RGP02-17EL-6433	
D525	8-719-109-93	ZENER DIODE RD6.2ESB2	
D601⚠	8-719-510-53	DIODE D4SB60L	
D602	8-719-911-19	DIODE 1SS119-25	
D603	8-719-110-57	ZENER DIODE RD22ESB2	
D604	8-719-510-02	DIODE D1NS4	
D605	8-719-110-31	ZENER DIODE RD12ESB2	
D606	8-719-979-64	DIODE UF4005PKG23	
D607	8-719-110-21	ZENER DIODE RD11ESB1	
D608	8-719-911-19	DIODE 1SS119-25	
D609	8-719-063-73	DIODE DINL20U-TR	
D610	8-719-979-64	DIODE UF4005PKG23	
D611	8-719-059-23	DIODE P6KE200AG23	
D612	8-719-027-43	DIODE S2L20UF	
D613	8-719-022-97	DIODE D2S4MF	
D614	8-719-052-90	DIODE D1NL40-TA2	
D615	8-719-052-86	DIODE D2L40-TA	
D616	8-719-031-78	DIODE S2L40F	
D617	8-719-052-91	DIODE D4SBS4-F	
D619	8-719-022-97	DIODE D2S4MF	
D620	8-719-110-63	ZENER DIODE RD24ESB3	
D621	8-719-911-19	DIODE 1SS119-25	
D622	8-719-029-04	DIODE D5L60	
D623	8-719-911-19	DIODE 1SS119-25	
D624	8-719-110-46	ZENER DIODE RD16ESB3	
D625	8-719-911-19	DIODE 1SS119-25	
D627	8-719-304-63	DIODE RM11C	
D701	8-719-976-96	ZENER DIODE DTZ4.7C	
D702	8-719-800-76	DIODE 1SS226	
D703	8-719-800-76	DIODE 1SS226	
D704	8-719-800-76	DIODE 1SS226	
D705	8-719-800-76	DIODE 1SS226	
D901	8-719-404-50	DIODE MA111-TX	
D902	8-719-158-49	ZENER DIODE RD12SB2	
D903	8-719-404-50	DIODE MA111-TX	
D904	8-719-158-49	ZENER DIODE RD12SB2	
D905	8-719-404-50	DIODE MA111-TX	
D906	8-719-404-50	DIODE MA111-TX	
D907	8-719-404-50	DIODE MA111-TX	
D908	8-719-404-50	DIODE MA111-TX	
D910	8-719-110-36	ZENER DIODE RD13ESB2	
D912	8-719-110-46	ZENER DIODE RD16ESB3	
D913	8-719-979-58	DIODE EGP10D	
D914	8-719-110-46	ZENER DIODE RD16ESB3	
D915	8-719-911-19	DIODE 1SS119-25	
D916	8-719-977-81	DIODE DTZ33B	
D917	8-719-052-86	DIODE D2L40-TA	
D918	8-719-158-49	ZENER DIODE RD12SB2	
D919	8-719-109-85	ZENER DIODE RD5.1ESB2	
D1501	8-719-109-85	ZENER DIODE RD5.1ESB2	
D1502	8-719-109-85	ZENER DIODE RD5.1ESB2	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
D1506	8-719-908-03	DIODE GP08D	
		<FUSE>	
F601 ⚠	1-576-233-11	FUSE (H.B.C.) (6.3A/250V)	
		<FERRITE BEAD>	
FB001	1-414-598-11	INDUCTOR CHIP	
FB002	1-414-598-11	INDUCTOR CHIP	
FB501	1-410-397-21	FERRITE 1.1µH	
FB601	1-410-396-41	FERRITE 0.45µH	
FB602	1-410-397-21	FERRITE 1.1µH	
FB901	1-410-397-21	FERRITE 1.1µH	
		<IC>	
IC001	8-759-531-24	IC MB90553pF-G-120-BND	
IC002	8-759-442-20	IC 24LC21AT/SN	
IC004	8-759-454-79	IC 24LC16BT/SN	
IC005	8-759-162-80	IC MM1170BFB	
IC007	8-752-078-46	IC CXA2043Q	
IC008	8-759-701-59	IC NJM78M09FA	
IC009	8-759-925-74	IC SN74HC04ANS	
IC010	8-752-083-83	IC CXA2044M-T6	
IC011	8-759-168-20	IC TA78L09S	
IC013	8-759-544-88	IC MC74HCT14AFEL	
IC501	8-759-100-96	IC µPC4558G2	
IC502	8-759-803-42	IC LA6500-FA	
IC601	8-749-011-42	IC SI-3050F	
IC602	8-759-470-64	IC TOP223Y-BB	
IC603	8-749-013-78	IC MCR5102	
IC604	8-749-012-49	IC DM-57N	
IC605	8-759-450-47	IC BA05T	
IC606	8-759-482-62	IC MC33262P	
IC701	8-759-822-38	IC LA6510	
IC702	8-759-822-38	IC LA6510	
IC901	8-759-467-70	IC BA9756FS-E2	
IC1501	8-759-803-42	IC LA6500-FA	
IC1502	8-759-822-38	IC LA6510	
IC1504	8-759-444-82	IC LA7841L	
		<COIL>	
L001	1-412-537-31	INDUCTOR 100µH	
L002	1-412-549-11	INDUCTOR 1mH	
L003	1-410-521-11	INDUCTOR 100µH	
L501	1-412-537-31	INDUCTOR 100µH	
L502	1-406-675-11	COIL, CHOKE 4.7mH	
L503	1-406-675-11	COIL, CHOKE 4.7mH	
L504	1-416-532-11	COIL, HORIZONTAL LINEARITY	
L505	1-406-675-11	COIL, CHOKE 4.7mH	
L506	1-416-531-11	COIL, HORIZONTAL LINEARITY	
L602	1-412-537-31	INDUCTOR 100µH	
L603	1-412-529-11	INDUCTOR 22µH	
L604	1-412-529-11	INDUCTOR 22µH	
L605	1-412-529-11	INDUCTOR 22µH	
L606	1-412-529-11	INDUCTOR 22µH	
L607	1-406-975-21	INDUCTOR 47µH	
L901	1-412-537-31	INDUCTOR 100µH	
L902	1-406-660-41	COIL, CHOKE 15µH	
		<PHOTO COUPLER>	
PH601	8-749-010-64	PHOTO COUPLER PC123F2	
PH602	8-749-010-64	PHOTO COUPLER PC123F2	
		<IC LINK>	
PS501⚠	1-533-592-31	LINK, IC (1.5A/90V AC, 60V DC)	
PS601⚠	1-533-593-31	LINK, IC (2A/90V AC, 60V DC)	
PS901⚠	1-533-592-31	LINK, IC (1.5A/90V AC, 60V DC)	
		<TRANSISTOR>	
Q002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q006	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
Q008	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q009	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
Q503	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
Q504	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q505	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
Q507	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q509	8-729-901-97	TRANSISTOR 2SA1036K-Q	
Q510	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q511	8-729-031-89	TRANSISTOR 2SC3941A-Q(TA)	
Q512	8-729-807-12	TRANSISTOR 2SD1802-S	
Q514	8-729-035-54	TRANSISTOR 2SJ449	
Q516	8-729-800-32	TRANSISTOR 2SC2362K-G	
Q517	8-729-140-50	TRANSISTOR 2SC3209LK	
Q518	8-729-043-73	TRANSISTOR IRLI540GSLF33	
Q519	8-729-033-99	TRANSISTOR 2SC5301-CC	
Q520	8-729-043-73	TRANSISTOR IRLI540GSLF33	
Q522	8-729-043-72	TRANSISTOR IRLI530GSLF33	
Q523	8-729-043-72	TRANSISTOR IRLI530GSLF33	
Q524	8-729-043-72	TRANSISTOR IRLI530GSLF33	
Q525	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
Q526	8-729-901-00	TRANSISTOR DTC124EK	
Q527	8-729-033-25	TRANSISTOR DTC114GKA	
Q528	8-729-204-91	TRANSISTOR 2SA1049-GR	
Q529	8-729-178-43	TRANSISTOR 2SC2784-E	
Q530	8-729-207-89	TRANSISTOR 2SA1358-Y	
Q531	8-729-207-82	TRANSISTOR 2SC3421-Y	
Q532	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q533	8-729-901-00	TRANSISTOR DTC124EK	
Q534	8-729-901-00	TRANSISTOR DTC124EK	
Q601	8-729-033-25	TRANSISTOR DTC114GKA	
Q602	8-729-029-47	TRANSISTOR DTA143ESA-TP	
Q603	8-729-033-25	TRANSISTOR DTC114GKA	
Q604	8-729-033-26	TRANSISTOR DTA114GKAT146	
Q605	8-729-041-65	TRANSISTOR 2SK2195F04	
Q606	8-729-029-47	TRANSISTOR DTA143ESA-TP	

REF.NO.	PART NO.	DESCRIPTION			REMARK
Q607	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q608	8-729-033-26	TRANSISTOR DTA114GKAT146			
Q609	8-729-033-25	TRANSISTOR DTC114GKA			
Q610	8-729-029-66	TRANSISTOR DTC114ESA			
Q612	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q901	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q902	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR			
Q903	8-729-901-97	TRANSISTOR 2SA1036K-Q			
Q904	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q905	8-729-035-54	TRANSISTOR 2SJ449			
Q906	8-729-041-58	TRANSISTOR 2SK2675			
		<RESISTOR>			
R001	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R003	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R005	1-216-025-91	RES, CHIP	100	5%	1/10W
R007	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R008	1-216-049-91	RES, CHIP	1K	5%	1/10W
R009	1-216-049-91	RES, CHIP	1K	5%	1/10W
R011	1-216-049-91	RES, CHIP	1K	5%	1/10W
R012	1-216-049-91	RES, CHIP	1K	5%	1/10W
R013	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R015	1-216-017-91	RES, CHIP	47	5%	1/10W
R017	1-216-097-91	RES, CHIP	100K	5%	1/10W
R018	1-216-017-91	RES, CHIP	47	5%	1/10W
R019	1-216-125-00	RES, CHIP	1.5M	5%	1/10W
R020	1-216-073-00	RES, CHIP	10K	5%	1/10W
R023	1-216-025-91	RES, CHIP	100	5%	1/10W
R026	1-216-047-91	RES, CHIP	820	5%	1/10W
R027	1-216-049-91	RES, CHIP	1K	5%	1/10W
R029	1-216-049-91	RES, CHIP	1K	5%	1/10W
R030	1-216-049-91	RES, CHIP	1K	5%	1/10W
R031	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R032	1-216-049-91	RES, CHIP	1K	5%	1/10W
R034	1-216-049-91	RES, CHIP	1K	5%	1/10W
R035	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R036	1-216-073-00	RES, CHIP	10K	5%	1/10W
R037	1-216-049-91	RES, CHIP	1K	5%	1/10W
R038	1-216-295-91	SHORT	0		
R040	1-216-049-91	RES, CHIP	1K	5%	1/10W
R041	1-216-049-91	RES, CHIP	1K	5%	1/10W
R044	1-216-049-91	RES, CHIP	1K	5%	1/10W
R046	1-216-295-91	SHORT	0		
R048	1-216-073-00	RES, CHIP	10K	5%	1/10W
R049	1-216-073-00	RES, CHIP	10K	5%	1/10W
R050	1-216-025-91	RES, CHIP	100	5%	1/10W
R051	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R052	1-216-025-91	RES, CHIP	100	5%	1/10W
R053	1-216-097-91	RES, CHIP	100K	5%	1/10W
R055	1-216-089-91	RES, CHIP	47K	5%	1/10W
R056	1-216-017-91	RES, CHIP	47	5%	1/10W
R057	1-216-025-91	RES, CHIP	100	5%	1/10W
R058	1-216-049-91	RES, CHIP	1K	5%	1/10W
R059	1-216-295-91	SHORT	0		
R060	1-216-025-91	RES, CHIP	100	5%	1/10W
R061	1-216-073-00	RES, CHIP	10K	5%	1/10W
R062	1-216-025-91	RES, CHIP	100	5%	1/10W
R063	1-216-025-91	RES, CHIP	100	5%	1/10W
R064	1-216-017-91	RES, CHIP	47	5%	1/10W
R065	1-216-111-00	RES, CHIP	390K	5%	1/10W
R066	1-216-073-00	RES, CHIP	10K	5%	1/10W
R067	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R068	1-216-073-00	RES, CHIP	10K	5%	1/10W
R069	1-216-049-91	RES, CHIP	1K	5%	1/10W
R070	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R071	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R072	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R073	1-216-073-00	RES, CHIP	10K	5%	1/10W
R074	1-216-049-91	RES, CHIP	1K	5%	1/10W
R075	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R076	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R077	1-216-049-91	RES, CHIP	1K	5%	1/10W
R078	1-216-073-00	RES, CHIP	10K	5%	1/10W
R079	1-216-049-91	RES, CHIP	1K	5%	1/10W
R080	1-216-049-91	RES, CHIP	1K	5%	1/10W
R081	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R082	1-216-073-00	RES, CHIP	10K	5%	1/10W
R084	1-216-073-00	RES, CHIP	10K	5%	1/10W
R085	1-216-049-91	RES, CHIP	1K	5%	1/10W
R086	1-216-073-00	RES, CHIP	10K	5%	1/10W
R087	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R088	1-216-089-91	RES, CHIP	47K	5%	1/10W
R089	1-216-025-91	RES, CHIP	100	5%	1/10W
R090	1-216-025-91	RES, CHIP	100	5%	1/10W
R091	1-216-025-91	RES, CHIP	100	5%	1/10W
R092	1-216-025-91	RES, CHIP	100	5%	1/10W
R093	1-216-025-91	RES, CHIP	100	5%	1/10W
R094	1-216-025-91	RES, CHIP	100	5%	1/10W
R095	1-216-025-91	RES, CHIP	100	5%	1/10W
R096	1-216-025-91	RES, CHIP	100	5%	1/10W
R097	1-216-039-00	RES, CHIP	390	5%	1/10W
R098	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R501	1-216-097-91	RES, CHIP	100K	5%	1/10W
R502	1-216-049-91	RES, CHIP	1K	5%	1/10W
R503	1-216-097-91	RES, CHIP	100K	5%	1/10W
R504	1-216-073-00	RES, CHIP	10K	5%	1/10W
R505	1-216-081-00	RES, CHIP	22K	5%	1/10W
R506	1-216-033-00	RES, CHIP	220	5%	1/10W
R507	1-216-093-00	RES, CHIP	68K	5%	1/10W
R508	1-216-073-00	RES, CHIP	10K	5%	1/10W
R509	1-249-421-11	CARBON	2.2K	5%	1/4W
R510	1-216-033-00	RES, CHIP	220	5%	1/10W
R511	1-216-025-91	RES, CHIP	100	5%	1/10W
R512	1-219-755-11	CARBON	10M	5%	1/2W
R513	1-216-097-91	RES, CHIP	100K	5%	1/10W
R514	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R515	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R516	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R517	1-216-009-91	RES, CHIP	22	5%	1/10W
R518	1-216-073-00	RES, CHIP	10K	5%	1/10W
R519	1-216-065-91	RES, CHIP	4.7K	5%	1/10W

D

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R520	1-216-097-91	RES, CHIP	100K	5% 1/10W	
R521	1-219-510-11	CARBON	470K	5% 1/2W	
R522	1-216-065-91	RES, CHIP	4.7K	5% 1/10W	
R523	1-216-097-91	RES, CHIP	100K	5% 1/10W	
R524	1-216-619-11	METAL CHIP	47	0.50% 1/10W	
R525	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	
R526	1-260-296-11	CARBON	2.2	5% 1/2W	
R527	1-215-860-11	METAL OXIDE	33	5% 1W	F
R528	1-216-677-11	METAL CHIP	12K	0.50% 1/10W	
R529	1-216-683-11	METAL CHIP	22K	0.50% 1/10W	
R530	1-216-073-00	RES, CHIP	10K	5% 1/10W	
R531	1-216-081-00	RES, CHIP	22K	5% 1/10W	
R532	1-216-683-11	METAL CHIP	22K	0.50% 1/10W	
R533	1-216-073-00	RES, CHIP	10K	5% 1/10W	
R534	1-216-683-11	METAL CHIP	22K	0.50% 1/10W	
R535	1-216-049-91	RES, CHIP	1K	5% 1/10W	
R536	1-216-425-11	METAL OXIDE	56	5% 1W	F
R537	1-216-073-00	RES, CHIP	10K	5% 1/10W	
R538	1-216-073-00	RES, CHIP	10K	5% 1/10W	
R539	1-219-677-11	METAL	1.8	5% 10W	
R540	1-216-679-11	METAL CHIP	15K	0.50% 1/10W	
R541	1-216-673-11	METAL CHIP	8.2K	0.50% 1/10W	
R542	1-216-049-91	RES, CHIP	1K	5% 1/10W	
R543	1-249-429-11	CARBON	10K	5% 1/4W	
R544	1-216-423-11	METAL OXIDE	27	5% 1W	F
R546	1-216-049-91	RES, CHIP	1K	5% 1/10W	
R548	1-216-674-11	METAL CHIP	9.1K	0.50% 1/10W	
R549	1-216-039-00	RES, CHIP	390	5% 1/10W	
R551	1-216-049-91	RES, CHIP	1K	5% 1/10W	
R553	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W	
R554	1-249-429-11	CARBON	10K	5% 1/4W	F
R555	1-216-049-91	RES, CHIP	1K	5% 1/10W	
R557	1-216-385-11	METAL OXIDE	0.47	5% 3W	F
R558	1-216-097-91	RES, CHIP	100K	5% 1/10W	
R559	1-216-049-91	RES, CHIP	1K	5% 1/10W	
R560	1-260-096-11	CARBON	560	5% 1/2W	
R561	1-249-413-11	CARBON	470	5% 1/4W	F
R562	1-260-316-51	CARBON	100	5% 1/2W	
R563	1-215-886-11	METAL OXIDE	100	5% 2W	F
R564	1-216-049-91	RES, CHIP	1K	5% 1/10W	
R565	1-216-079-00	RES, CHIP	18K	5% 1/10W	
R566	1-260-314-11	CARBON	68	5% 1/2W	
R567	1-249-403-11	CARBON	68	5% 1/4W	
R568	1-214-840-00	METAL	100	1% 1/2W	
R569	1-216-073-00	RES, CHIP	10K	5% 1/10W	
R570	1-249-429-11	CARBON	10K	5% 1/4W	F
R571	1-216-081-00	RES, CHIP	22K	5% 1/10W	
R572	1-249-437-11	CARBON	47K	5% 1/4W	
R573	1-249-437-11	CARBON	47K	5% 1/4W	
R574	1-249-437-11	CARBON	47K	5% 1/4W	
R575	1-249-437-11	CARBON	47K	5% 1/4W	
R576	1-249-437-11	CARBON	47K	5% 1/4W	
R577	1-249-389-11	CARBON	4.7	5% 1/4W	F
R578	1-216-051-00	RES, CHIP	1.2K	5% 1/10W	
R580	1-249-430-11	CARBON	12K	5% 1/4W	
R582	1-249-413-11	CARBON	470	5% 1/4W	F
R583	1-249-389-11	CARBON	4.7	5% 1/4W	F
R584	1-249-389-11	CARBON	4.7	5% 1/4W	F
R587	1-216-357-00	METAL OXIDE	4.7	5% 1W	F
R589	1-216-643-11	METAL CHIP	470	0.50% 1/10W	
R590	1-247-815-91	CARBON	220	5% 1/4W	
R591	1-249-393-11	CARBON	10	5% 1/4W	F
R592	1-216-341-11	METAL OXIDE	0.22	5% 1W	F
R593	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W	
R594	1-216-691-11	METAL CHIP	47K	0.50% 1/10W	
R595	1-216-065-91	RES, CHIP	4.7K	5% 1/10W	
R596	1-216-057-00	RES, CHIP	2.2K	5% 1/10W	
R597	1-216-643-11	METAL CHIP	470	0.50% 1/10W	
R598	1-216-101-00	RES, CHIP	150K	5% 1/10W	
R601⚠	1-202-880-91	SOLID	330K	20% 1/2W	
R602	1-260-089-11	CARBON	150	5% 1/2W	
R603	1-249-403-11	CARBON	68	5% 1/4W	
R604	1-215-428-00	METAL	2K	1% 1/4W	
R605	1-202-933-61	FUSIBLE	0.1	10% 1/2W	F
R607	1-216-073-00	RES, CHIP	10K	5% 1/10W	
R608	1-216-342-11	METAL OXIDE	0.27	5% 1W	F
R610	1-215-445-00	METAL	10K	1% 1/4W	
R611	1-249-389-11	CARBON	4.7	5% 1/4W	F
R613	1-247-791-91	CARBON	22	5% 1/4W	
R614	1-215-861-00	METAL OXIDE	47	5% 1W	F
R615	1-249-413-11	CARBON	470	5% 1/4W	
R616	1-249-441-11	CARBON	100K	5% 1/4W	
R617	1-249-417-11	CARBON	1K	5% 1/4W	
R619	1-215-419-00	METAL	820	1% 1/4W	
R620	1-215-403-00	METAL	180	1% 1/4W	
R621	1-215-459-00	METAL	39K	1% 1/4W	
R622	1-215-481-00	METAL	330K	1% 1/4W	
R623	1-247-815-91	CARBON	220	5% 1/4W	
R624	1-249-417-11	CARBON	1K	5% 1/4W	
R625	1-249-413-11	CARBON	470	5% 1/4W	F
R628	1-249-417-11	CARBON	1K	5% 1/4W	
R629	1-215-443-00	METAL	8.2K	1% 1/4W	
R630	1-215-484-00	METAL	430K	1% 1/4W	
R631	1-215-484-00	METAL	430K	1% 1/4W	
R633	1-249-389-11	CARBON	4.7	5% 1/4W	F
R634	1-249-429-11	CARBON	10K	5% 1/4W	
R635	1-215-880-00	METAL OXIDE	10	5% 2W	F
R636	1-215-484-00	METAL	430K	1% 1/4W	
R638	1-247-807-31	CARBON	100	5% 1/4W	
R639	1-247-863-91	CARBON	22K	5% 1/4W	
R640	1-247-863-91	CARBON	22K	5% 1/4W	
R641	1-215-482-00	METAL	360K	1% 1/4W	
R642	1-215-485-00	METAL	470K	1% 1/4W	
R643	1-215-485-00	METAL	470K	1% 1/4W	
R644	1-215-485-00	METAL	470K	1% 1/4W	
R645	1-215-481-00	METAL	330K	1% 1/4W	
R646	1-215-462-00	METAL	51K	1% 1/4W	
R647	1-215-451-00	METAL	18K	1% 1/4W	
R648	1-215-443-00	METAL	8.2K	1% 1/4W	
R649	1-215-861-00	METAL OXIDE	47	5% 1W	F
R651	1-249-429-11	CARBON	10K	5% 1/4W	
R652	1-249-429-11	CARBON	10K	5% 1/4W	

REF.NO.	PART NO.	DESCRIPTION			REMARK
R653	1-215-485-00	METAL	470K	1%	1/4W
R656	1-215-485-00	METAL	470K	1%	1/4W
R657	1-215-473-00	METAL	150K	1%	1/4W
R658	1-215-421-00	METAL	1K	1%	1/4W
R659	1-249-429-11	CARBON	10K	5%	1/4W
R660	1-249-421-11	CARBON	2.2K	5%	1/4W
R663	1-249-441-11	CARBON	100K	5%	1/4W
R664	1-216-364-11	METAL OXIDE	0.39	5%	2W F
R665	1-216-364-11	METAL OXIDE	0.39	5%	2W F
R669	1-249-401-11	CARBON	47	5%	1/4W
R674	1-247-895-91	CARBON	470K	5%	1/4W
R701	1-249-383-11	CARBON	1.5	5%	1/4W F
R702	1-216-295-91	SHORT	0		
R703	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R704	1-216-690-11	METAL CHIP	43K	0.50%	1/10W
R705	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R706	1-216-073-00	RES, CHIP	10K	5%	1/10W
R707	1-216-073-00	RES, CHIP	10K	5%	1/10W
R708	1-216-073-00	RES, CHIP	10K	5%	1/10W
R709	1-216-073-00	RES, CHIP	10K	5%	1/10W
R710	1-249-383-11	CARBON	1.5	5%	1/4W F
R711	1-249-383-11	CARBON	1.5	5%	1/4W F
R712	1-249-383-11	CARBON	1.5	5%	1/4W F
R713	1-249-383-11	CARBON	1.5	5%	1/4W F
R714	1-216-308-00	RES, CHIP	4.7	5%	1/10W
R715	1-216-308-00	RES, CHIP	4.7	5%	1/10W
R716	1-216-308-00	RES, CHIP	4.7	5%	1/10W
R717	1-216-308-00	RES, CHIP	4.7	5%	1/10W
R718	1-216-308-00	RES, CHIP	4.7	5%	1/10W
R719	1-216-308-00	RES, CHIP	4.7	5%	1/10W
R720	1-216-308-00	RES, CHIP	4.7	5%	1/10W
R721	1-216-308-00	RES, CHIP	4.7	5%	1/10W
R724	1-249-383-11	CARBON	1.5	5%	1/4W F
R725	1-216-073-00	RES, CHIP	10K	5%	1/10W
R726	1-249-383-11	CARBON	1.5	5%	1/4W F
R727	1-216-073-00	RES, CHIP	10K	5%	1/10W
R728	1-249-383-11	CARBON	1.5	5%	1/4W F
R729	1-216-073-00	RES, CHIP	10K	5%	1/10W
R730	1-249-383-11	CARBON	1.5	5%	1/4W F
R731	1-216-073-00	RES, CHIP	10K	5%	1/10W
R735	1-215-882-00	METAL OXIDE	22	5%	2W F
R737	1-215-882-00	METAL OXIDE	22	5%	2W F
R739	1-215-882-00	METAL OXIDE	22	5%	2W F
R741	1-215-882-00	METAL OXIDE	22	5%	2W F
R901	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R902	1-216-097-91	RES, CHIP	100K	5%	1/10W
R903	1-218-762-11	METAL CHIP	270K	0.50%	1/10W
R904	1-216-073-00	RES, CHIP	10K	5%	1/10W
R905	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R906	1-216-109-00	RES, CHIP	330K	5%	1/10W
R907	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R908	1-216-009-91	RES, CHIP	22	5%	1/10W
R909	1-216-073-00	RES, CHIP	10K	5%	1/10W
R910	1-216-397-11	METAL OXIDE	4.7	5%	3W F
R911	1-216-081-00	RES, CHIP	22K	5%	1/10W
R912	1-216-057-00	RES, CHIP	2.2K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R913	1-216-025-91	RES, CHIP	100	5%	1/10W
R914	1-216-073-00	RES, CHIP	10K	5%	1/10W
R915	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R916	1-216-033-00	RES, CHIP	220	5%	1/10W
R917	1-249-397-11	CARBON	22	5%	1/4W F
R918	1-216-033-00	RES, CHIP	220	5%	1/10W
R919	1-219-727-11	METAL	68	5%	10W
R920	1-249-389-11	CARBON	4.7	5%	1/4W F
R921	1-219-748-11	CARBON	4.7K	5%	1/2W
R922	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R923	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R924	1-220-825-11	CARBON	330K	5%	1/2W
R925	1-216-073-00	RES, CHIP	10K	5%	1/10W
R926	1-219-748-11	CARBON	4.7K	5%	1/2W
R927	1-216-049-91	RES, CHIP	1K	5%	1/10W
R928	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R930	1-216-089-91	RES, CHIP	47K	5%	1/10W
R932	1-216-085-00	RES, CHIP	33K	5%	1/10W
R933	1-216-091-00	RES, CHIP	56K	5%	1/10W
R934	1-216-668-11	METAL CHIP	5.1K	0.50%	1/10W
R935	1-216-089-91	RES, CHIP	47K	5%	1/10W
R936	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R937	1-216-025-91	RES, CHIP	100	5%	1/10W
R939	1-216-033-00	RES, CHIP	220	5%	1/10W
R940	1-216-073-00	RES, CHIP	10K	5%	1/10W
R941	1-216-025-91	RES, CHIP	100	5%	1/10W
R942	1-219-748-11	CARBON	4.7K	5%	1/2W
R943	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1003	1-216-093-91	RES, CHIP	68K	5%	1/10W
R1004	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1005	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1008	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1009	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1021	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1022	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1024	1-216-025-91	RES, CHIP	100	5%	1/10W
R1025	1-216-025-91	RES, CHIP	100	5%	1/10W
R1028	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1029	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1030	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1031	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R1032	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R1035	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1037	1-249-389-11	CARBON	4.7	5%	1/4W F
R1038	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1039	1-216-041-00	RES, CHIP	470	5%	1/10W
R1501	1-216-077-00	RES, CHIP	15K	5%	1/10W
R1502	1-216-075-00	RES, CHIP	12K	5%	1/10W
R1503	1-216-075-00	RES, CHIP	12K	5%	1/10W
R1504	1-216-689-11	RES, CHIP	39K	5%	1/10W
R1505	1-249-383-11	CARBON	1.5	5%	1/4W F
R1506	1-216-473-11	METAL OXIDE	56	5%	3W F
R1507	1-249-383-11	CARBON	1.5	5%	1/4W F
R1508	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R1509	1-216-298-00	RES, CHIP	2.2	5%	1/10W
R1510	1-249-383-11	CARBON	1.5	5%	1/4W F

D H

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1511	1-216-077-00	RES, CHIP	15K	5% 1/10W	
R1512	1-216-105-91	RES, CHIP	220K	5% 1/10W	
R1513	1-216-298-00	RES, CHIP	2.2	5% 1/10W	
R1514	1-249-383-11	CARBON	1.5	5% 1/4W	F
R1515	1-216-089-91	RES, CHIP	47K	5% 1/10W	
R1516	1-215-885-00	METAL OXIDE	68	5% 2W	F
R1517	1-216-071-00	RES, CHIP	8.2K	5% 1/10W	
R1518	1-216-077-00	RES, CHIP	15K	5% 1/10W	
R1519	1-216-073-00	RES, CHIP	10K	5% 1/10W	
R1520	1-216-097-91	RES, CHIP	100K	5% 1/10W	
R1521	1-249-383-11	CARBON	1.5	5% 1/4W	F
R1522	1-216-085-00	RES, CHIP	33K	5% 1/10W	
R1523	1-215-886-11	METAL OXIDE	100	5% 2W	F
R1525	1-216-077-00	RES, CHIP	15K	5% 1/10W	
R1526	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W	
R1531	1-214-792-00	METAL	1	1% 1/2W	
R1532	1-216-073-00	RES, CHIP	10K	5% 1/10W	
R1533	1-216-663-11	METAL CHIP	3.3K	0.50% 1/10W	
R1534	1-216-393-00	METAL OXIDE	2.2	5% 3W	F
R1535	1-216-651-11	METAL CHIP	1K	0.50% 1/10W	
R1537	1-216-687-11	METAL CHIP	33K	0.50% 1/10W	
R1538	1-215-866-11	METAL OXIDE	330	5% 1W	F
R1539	1-249-383-11	CARBON	1.5	5% 1/4W	F
R1540	1-216-393-00	METAL OXIDE	2.2	5% 3W	F
R1541	1-214-792-00	METAL	1	1% 1/2W	
R1542	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W	
R1543	1-216-073-00	RES, CHIP	10K	5% 1/10W	
R1544	1-216-101-00	RES, CHIP	150K	5% 1/10W	

<VARIABLE RESISTOR>

⋈ RV901⚠1-241-767-21 RES, ADJ, CERMET 100K (HV ADJ)

<RELAY>

RY501 1-755-137-11 RELAY
RY601 1-515-840-11 RELAY
RY602 1-515-669-21 RELAY

<SPARK GAP>

SG901 1-519-422-11 GAP, SPARK
SG902 1-517-499-21 GAP, SPARK
SG903 1-519-422-11 GAP, SPARK

<SWITCH>

SW601⚠1-571-433-31 SWITCH, PUSH (AC POWER)

<TRANSFORMER>

T501 1-431-056-11 TRANSFORMER, FERRITE (HDT)
T502 1-431-414-11 TRANSFORMER, FERRITE (DFT)
T503 1-411-594-11 INDUCTOR 5mH
T504 1-431-443-11 TRANSFORMER, FERRITE (HST)
T505 1-429-301-11 TRANSFORMER, FERRITE (HCT)

T601 ⚠ 1-429-180-11 TRANSFORMER, LINE FILTER

REF.NO.	PART NO.	DESCRIPTION	REMARK
T602	1-431-678-11	TRANSFORMER, FERRITE (pFT)	
T603	1-431-565-31	TRANSFORMER, CONVERTER (SRT)	
T604 ⚠	1-431-679-11	TRANSFORMER, CONVERTER (PIT)	
T901 ⚠	X-4035-425-1	TRANSFORMER ASSY, FLYBACK	(NX-4500//J1E4)
T902	1-411-567-11	COIL, CHOKE 500µH	

<THERMISTOR>

TH501 1-807-796-11 THERMISTOR
TH601⚠ 1-809-260-11 THERMISTOR, POWER
THP601 1-809-827-11 THERMISTOR, POSITIVE

<VARISTOR>

VDR601 1-810-622-11 VARISTOR
VDR602⚠1-801-268-51 VARISTOR TNR14V471K660

<CRYSTAL>

X001 1-567-781-61 VIBRATOR, CRYSTAL (4 MHz)

****

* 8-733-287-00 H BOARD, COMPLETE
****

4-045-133-21 HOLDER (B), LED (D800, D801)
* 4-049-002-01 HOLDER, LED (D806)

<CAPACITOR>

C800	1-104-664-11	ELECT	47µF	20%	25V
C801	1-104-664-11	ELECT	47µF	20%	25V

<CONNECTOR>

CN801* 1-784-255-11 PIN, CONNECTOR (PWB) 10P

<DIODE>

D800 8-719-311-90 DIODE SEL1922D-C
D801 8-719-311-90 DIODE SEL1922D-C
D806 8-719-045-19 DIODE SPB-26MVWF

<TRANSISTOR>

Q800 8-729-029-86 TRANSISTOR DTC124ESA
Q801 8-729-029-86 TRANSISTOR DTC124ESA
Q802 8-729-119-78 TRANSISTOR 2SC2785-HFE
Q803 8-729-119-78 TRANSISTOR 2SC2785-HFE

<RESISTOR>

R800	1-247-843-11	CARBON	3.3K	5%	1/4W
R801	1-249-411-11	CARBON	330	5%	1/4W

H

REF.NO.	PART NO.	DESCRIPTION			REMARK
R802	1-249-411-11	CARBON	330	5%	1/4W
R803	1-249-413-11	CARBON	470	5%	1/4W
R804	1-249-413-11	CARBON	470	5%	1/4W
R805	1-249-415-11	CARBON	680	5%	1/4W
R806	1-249-417-11	CARBON	1K	5%	1/4W
R807	1-249-417-11	CARBON	1K	5%	1/4W
R808	1-249-426-11	CARBON	5.6K	5%	1/4W
R809	1-249-417-11	CARBON	1K	5%	1/4W
R810	1-249-417-11	CARBON	1K	5%	1/4W
R811	1-247-815-91	CARBON	220	5%	1/4W
R812	1-249-411-11	CARBON	330	5%	1/4W
R813	1-249-411-11	CARBON	330	5%	1/4W
R814	1-249-411-11	CARBON	330	5%	1/4W
R815	1-215-445-00	METAL	10K	1%	1/4W
R816	1-215-469-00	METAL	100K	1%	1/4W
	<SWITCH>				
S800	1-571-532-21	SWITCH, TACTILE (CONT+)			
S801	1-571-532-21	SWITCH, TACTILE (CONT–)			
S802	1-571-532-21	SWITCH, TACTILE (OSD)			
S803	1-571-532-21	SWITCH, TACTILE (BRT+)			
S804	1-571-532-21	SWITCH, TACTILE (BRT–)			
S805	1-571-532-21	SWITCH, TACTILE (INPUT)			
S806	1-571-532-21	SWITCH, TACTILE (ASC)			
S807	1-571-532-21	SWITCH, TACTILE (RESET)			
	<THERMISTOR>				
TH801	1-807-796-11	THERMISTOR			

GDM-400PS/400PST/400PST9

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Display Company
Computer Display Dept.

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